BENJAMIN YANKSON

College of Emergency Preparedness, Homeland Security and Cybersecurity
Department of Cybersecurity
ETEC 260J – 1400 Washington Ave.
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(518) 334-9539

EDUCATION

2019	**Ph.D**. in Computer Science, Ontario Tech University. Dissertation: A Privacy Preservation Framework Smart Connected Toys. Doctoral Mentor: Patrick C.K Hung, Ph.D.
2025	**MBA.** in Business Administration, University at Albany, Albany, NY
2013	**M.I.T.S.** in Information Technology Security, Ontario Tech University. MRP: Designing Holistic Secure Electronic Health Record System. Mentor: Khalil El-Khatib Ph.D.
2003	**B.A.** in Information Technology, York University

EDUCATIONAL EMPLOYMENT

2019 - Present	**Assistant Professor & Graduate Program Director**, College of Emergency Preparedness, Homeland Security and Cybersecurity, University at Albany, State University of New York.
2017 - 2019	**Professor of Practice Cybersecurity**, School of Applied Computing, Sheridan College, Oakville, Ontario, Canada.
2014 - 2017	**Adjunct Professor Cybersecurity**, School of Applied Computing, Sheridan College, Oakville, Ontario, Canada.
2013 - 2014	**Adjunct Professor Computer Science**, CCAIST, Mohawk College, Hamilton, Ontario, Canada.

ADDITIONAL EMPLOYMENT

2017 - 2017	**Project Research Scientist**, Zayed University, Abu Dhabi, UAE
2013 - 2013	**Graduate Researcher Assistant,** Measuring Privacy Project, OntarioTech University, Oshawa, Ontario, Canada. National Cyber

OTHER PROFESSIONAL APPOINTMENTS

2022 – 2024   **Associate Graduate Faculty Advisor (Unpaid),** OntarioTech Uni

2021 – Present   **Founder & CEO,** Global CyberTech Exchange, NY, USA
https://globalcybertechexchange.org/

2014 – 2017   **Application Manager,** Critical Care Information System (CCIS), Ontario Government (CritiCall Ontario), Hamilton, Ontario, Canada.

2013 – 2014   **Technical Lead,** IT and Decision Support**,** Ontario Government (CritiCall Ontario), Hamilton, Ontario, Canada.

2003 – 2013   **Head / Coordinator Technical Support Services,** FES ITS, York University, Toronto, Canada.

2008 – 2009   **Acting Director,** FES ITS, York University, Toronto, Ontario, Canada.

HONORS AND AWARDS

Dr. Nuala McGann Dresch Award	New York State	2022	
Individual Development Award	Professions Professional Development Committee	2022	$600
Research Travel Award	Sheridan College Professional Development Fund	2018	$5,046
Individual Development Award	Sheridan College Tuition Reimbursement	2018	$9,046
CEHC Mentorship Award	CEHC, University at Albany	2019	
2020 Torch Award (Nominated)	University at Albany	2020	
Graduate Student Travel Award	OntarioTech University	2017	$1,000

PUBLICATIONS

(*indicates undergraduate student co-author, **indicates graduate student co-author)

Peer-Reviewed Articles

*Berkoh E., **Yankson, B**. **Hussein, M., & **Dadson, Y. (2024). Exploring Collaborative Approaches to Cybersecurity. *International Conference on Cyber Warfare and Security*, *19*(1), 366–374. https://doi.org/10.34190/iccws.17.1.48

Hung P.C.K., Iqbal F., **Yankson B**. (2024) Smart Toys. In: Lee N. (eds) Encyclopedia of Computer

Graphics and Games. Springer, Cham

Yankson, B. (2023). Small-scale IoT device privacy evaluation using Petri Net Modeling. *Internet of Things*, *22*, 100725. https://doi.org/10.1016/j.iot.2023.100725

Kumi-Yeboah, A., Kim, Y., **Yankson, B.**, Aikins, S., & **Dadson, Y. A. (2023). Diverse students' perspectives on privacy and Technology Integration in higher education. *British Journal of Educational Technology*. https://doi.org/10.1111/bjet.13386

*Amoresano, K., **Yankson, B**. (2023). Human error - A critical contributing factor to the rise in data breaches: a case study of higher education, Holistica Journal of Business and Public Administration, Vol. 14, Iss. 1, pp.110-132. https://doi.org/10.2478/hjbpa-2023-0007

Yankson, B., **Ottah A. (2023). Investigating HIPAA Cybersecurity & Privacy Breach Compliance Reporting During Covid-19. 18th Annual Symposium on Information Assurance. *18*(18), 14-21.

*Han, J., **Yankson, B**. (2023). Investigating Cybercrime Using Code Authorship Analysis & 4P Forensic Conceptual Model, 18th Annual Symposium on Information Assurance. *18*(18), 39–43.

**Yankson, B., ***Loucks, T., *Sampson, A., & *Lojano, C. (2023). Robots Security Assessment and analysis using open-source tools. *International Conference on Cyber Warfare and Security*, *18*(1), 449–456. https://doi.org/10.34190/iccws.18.1.1019

Yankson, B., Iqbal, F., & **AlMaeeni, F. (2023). Social robots' privacy enhancement using Colored Petri Net (CPN) for behavior modeling: A case study of Asus zenbo robot. *International Conference on Cyber Warfare and Security*, *18*(1), 457–464. https://doi.org/10.34190/iccws.18.1.1018

Rocha, L., Furtado, M., **Yankson, B**., & Salgado, A. (2022). MLOPS AND DESIGNOPS: Towards an Integrated Model. CONTECSI USP - *International Conference on Information Systems and Technology Management* - ISSN 2448-1041. Acesso em http://contecsi.tecsi.org/index.php/contecsi/19CONTECSI/paper/view/6997

Barati, M., & **Yankson, B. (2022). Predicting the occurrence of a data breach. International *Journal of Information Management Data Insights*, 2(2), 100128. https://doi.org/10.1016/j.jjimei.2022.100128

Lin, PC., **Yankson, B.,** & Chauhan, V. (2022). Building a Speech Recognition System with Privacy Identification Information Based on Google Voice for Social Robots. *In Journal of Supercomputing. (*Vol. 78, Issue 6, p. 1-29). Springer https://doi.org/10.1007/s11227-022-04487-3

Yankson, B., *Cajigal, E.D, *Al-Jabri, A., *Gitin, N., & *Davidson, S. (2022). Social media privacy using the EDEE security model. *International Conference on Cyber Warfare and Security*, *17*(1), 366–374. https://doi.org/10.34190/iccws.17.1.48

Yankson, B., Hung, P., & Iqbal, F. (2021). Systematic Privacy Impact Assessment Scheme (SPIAS) for Smart Connected Toys Data Privacy Compliance. *In International Journal of Big Data Intelligence* (Vol. 8, Issue 1, p. 1). Inderscience Publishers. https://doi.org/10.1504/ijbdi.2021.10040364

Yankson, B. (2021). Continuous Improvement Process-Based Privacy-Preserving Framework for Smart Connected Toys. *International Journal of Information Security*, Springer. https://doi.org/10.1007/s10207-020-00535-2

*Al-Room, K., Iqbal, F., Baker, T., **Yankson, B**., MacDermott, A., & Hung, P. C. K. (2021). Drone Forensics: A Case Study of Digital Forensic Investigations Conducted on Common Drone Models. *International Journal of Digital Crime and Forensics,* 13(1), 1–25. https://doi.org/10.4018/ijdcf.2021010101

**Yankson, B., **Javid. V. K., Hung, P. C. K., Iqbal, F., and Ali, L. (2021). Security Assessment for Zenbo Robot Using Drozer and mobSF Frameworks. 2021 11th IFIP International Conference on New Technologies, Mobility, and Security (NTMS), 2021, pp. 1-7, doi: 10.1109/NTMS49979.2021.9432666

Yankson, B. (2021). An Empirical Study - Privacy and Security Analysis of Companion Robot System Development. *ICCWS 2021 16th International Conference on Cyber Warfare and Security*. February 25- 26, 2021, Cookeville, Tennessee, USA

Yankson, B., Salgado, A. L., & Fortes, R. P. M. (2021). Recommendations to Enhance Privacy and Usability of Smart Toys. *In Proceedings of the 54th Hawaii International Conference on System Sciences.* Hawaii International Conference on System Sciences. Hawaii International Conference on System Sciences. https://doi.org/10.24251/hicss.2021.228

Yankson, B. (2020). Autonomous Vehicle Security Through Privacy Integrated Context Ontology (PICO). *2020 IEEE International Conference on Systems, Man, and Cybernetics (SMC).* https://doi.org/10.1109/smc42975.2020.9283180

Yankson B., Iqbal F. and Hung P.C.K. (2020). 4P-Based Forensics Investigation Framework for Smart Connected Toys. *In Proceedings of the 15th International Conference on Availability, Reliability, and Security (ARES '20). Association for Computing Machinery,* New York, NY, USA, Article 44, 1–9. DOI: https://doi.org/10.1145/3407023.3409213

Lin, P.-C., **Yankson, B**., & Hung, P. C. K. (2020). A Prototype of Privacy Identification System for Smart Toy Dialogue Design. 2020 IEEE International Conference on Networking, Sensing, and Control (ICNSC). 2020 IEEE International Conference on Networking, Sensing, and Control (ICNSC). https://doi.org/10.1109/icnsc48988.2020.9238116

Fantinato, M., **Albuquerque, O. D. P., **De Albuquerque, A. P., Kelner, J., & **Yankson, B.** (2020). A Literature Survey on Smart Toy-related Children's Privacy Risks. Proceedings of the 53rd Hawaii International Conference on System Sciences. Hawaii International Conference on System Sciences. https://doi.org/10.24251/hicss.2020.182

Lin, P.-C., **Yankson, B.**, Lu, Z., & Hung, P. C. K. (2019). Children Privacy Identification System in LINE Chatbot for Smart Toys. 2019 IEEE 12th International Conference on Cloud Computing (CLOUD). 2019 IEEE 12th International Conference on Cloud Computing (CLOUD). https://doi.org/10.1109/cloud.2019.00026

Iqbal F., **Yankson B.,** *AlYammahi M., AlMansoori N., Qayed S.M., Shah B., Baker T. (2019). Drone Forensics: Examination and Analysis, International Journal of Electronic Security Digital Forensic, Inderscience Publishers (IEL), Vol. 11, Issue 3, pp. 245-264

Yankson, B., & *Davis, A. (2019). Analysis of the Current State of Cloud Forensics: The Evolving Nature of Digital Forensics. 2019 IEEE/ACS 16th International Conference on Computer Systems and Applications (AICCSA). 2019 IEEE/ACS 16th International Conference on Computer Systems and Applications (AICCSA). https://doi.org/10.1109/aiccsa47632.2019.9035336

Yankson, B., Iqbal, F., Aleem, S., Shah, B., Hung, P. C. K., & **de Albuquerque, A. P. (2019). A Privacy-Preserving Context Ontology (PPCO) for Smart Connected Toys. 2019 12th CMI Conference on Cybersecurity and Privacy (CMI). 2019 12th CMI Conference on Cybersecurity and Privacy (CMI). https://doi.org/10.1109/cmi48017.2019.8962141

Yankson, B., Iqbal, F., Lu, Z., Wang, X., & Hung, P. (2019). Modeling Privacy Preservation in Smart Connected Toys by Petri-Nets. Proceedings of the 52nd Hawaii International Conference on System Sciences. Hawaii International Conference on System Sciences. https://doi.org/10.24251/hicss.2019.207

Pontes, L., Coutinho, G., Hung, P. C. K., & **Yankson, B. (**2019). Security in Smart Toys: A Systematic Review of Literature. Proceedings of the 21st International Conference on Human-Computer Interaction. pp., 1696-1705. https://doi.org/10.1007/978-3-030-21935-2_3

Iqbal, F., Hung, P. C. K, and Morrison, A. **Yankson, B**., (2017). A Study of Detecting Child Pornography on Smart Phone. Proceedings of the 20th International Conference on Network-Based Information Systems, August 24-26, 2017, pp. 373-384

Book Chapters

Yankson, B. (2020). Space Infrastructure Security Through the Lens of Plan-Do-Check-Act (PDCA) Cybersecurity Framework. NATO Science for Peace and Security Series – D: Information and Communication Security, 57(Space Infrastructures: From Risk to Resilience Governance), 109–119. https://doi.org/10.3233/NICSP200012

Pontes L., Coutinho G., **Yankson B.,** Hung P.C.K. (2019). Security in Smart Toys: A Systematic Review of Literature. In: Streitz N., Konomi S. (eds) Distributed, Ambient, and Pervasive Interactions. HCII 2019. Lecture Notes in Computer Science, vol 11587. Springer, Cham

Yankson, B., Iqbal, F., and Hung, P. C. K. (2017). Privacy Preservation Framework for Smart Connected Toys. Tang J., Hung P. (eds) Computing in Smart Toys. International Series on Computer Entertainment and Media Technology. Springer, pp. 149-164

Iqbal, F., Hung, P. C. K., and Morrison, A. **Yankson, B**. (2017). A Study of Detecting Child Pornography on Smart Phone. Barolli L., Enokido T., Takizawa M. (eds) Advances in Network-Based Information Systems. NBiS 2017. Lecture Notes on Data Engineering and Communications Technologies, Vol 7. Springer, pp. 373-384

Editorial Activities

Griffin, R. P., Tatar, U., & **Yankson, B.** (Eds.). (2022). *Proceedings of the 17th International Conference on Cyber Warfare and Security*. State University of New York at Albany,

Albany, New York, USA, 17-18 March 2022. Academic Conferences International Limited.

Encyclopedia Entries

Hung P.C.K., Iqbal F., **Yankson B**. (2024) Smart Toys. In: Lee N. (eds) Encyclopedia of Computer Graphics and Games. Springer, Cham

Technical Reports

Yankson, B . (2018). Course Delivery Culture: Achieving Consistent Learning Outcomes
Within the ISS Program Cybersecurity. "Teach Geek Sessions and Exhibits" (2018). *spark TALKS*. 7.https://source.sheridancollege.ca/conferences_spark_talks/October2018/oct2018/7

Public Writing

Nussbaum, B., Tatar, U., **Yankson, B.,** Ackerman, G., & Behlendorf, B**.** (2021). "The Internet of Very Cold Things." Lawfare. https://www.lawfareblog.com/internet-very-cold-things

Work in Progress

Ruffner, J., Yankson B., and Bonsu. (In progress). Investigating User Awareness of Provacy and Security Concerns in the IoT Era **.**

Yankson B., Iqbal F., and Hung P.C.K (Forthcoming). Privacy Preservation Data Flow Modeling: A Case Study of Companion Robot and SCTs**.** *International Journal of Child-Computer Interactions,* Elsevier *(Submitted)*

Anetey, S., Danson, E., **Yankson B**., (Forthcoming). Enhancing Concurrency Control in Federated Distributed Database Systems**.** International Journal of Supercomputing, Springer *(Submitted)*

Yankson, B. (Forthcoming). Electronic Health Record System Security Using CBK Framework International Journal of Information Security, Springer *(Work in Progress)*

GRANT FUNDING

Federal

Role: Co-Principal Investigator (with Principal Investigator Unal Tatar)
Project: Sustainment for Virtual Institute of Cyber Operation and Research (VICOR)
Source: Department of Defense – Air Force Research Lab
Time Period: 10/2024 – 09/2025 Total Funding: $500,000
Award Status: Funded

Role: Co-Principal Investigator (with Principal Investigator Unal Tatar)
Project: Virtual Institute of Cyber Operation and Research (VICOR)
Source: Department of Defense – Air Force Research Lab

Time Period: 07/2022 – 06/2024
Total Funding: $1,500,000
Award Status: Funded

Role: Principal Investigator
Project: Privacy Preservation Framework for Artificial Intelligent Enabled
Children Toys
Source: NSF CAREER
Time Period: 07/2024 – 06/2029
Total Funding: $600,000
Award Status: Not Funded

Role: Principal Investigator
Project: Artificial Intelligence Recommender System for Workforce
Cybersecurity Education Training and Awareness (AIRS-CETA)
Source: NSF - SaTC
Time Period: 07/2024 – 06/2026
Total Funding: $500,000
Award Status: Work in Progress

Role: Senior Research Scientist (with Principal Investigator Abdullah Canbaz)
Project: REU Site: Interdisciplinary Science for Integrative Challenges in Cybersecurity (ISICC)
Source: NSF
Period: 2 years
Total Funding: $ 386057
Award Status: Under Review

University at Albany

Role: Team Member (with Principal Investigator Jon Petruccelli)
Project: Center for Integrated Sensors, Screening, and Security (CIS[3])
Source: SUNY Research Foundation – Seed Funding
Time Period: 05/22/2022 – 07/31/2023
Total Funding: $25,000
Award Status: Funded

Role: Principal Investigator
Project: FRAP-B Assessing Privacy Preservation Smart Connected (SCT-AI) Toys
Source: University at Albany Office of Research
Time Period: 06/01/2021 – 06/30/2022
Total Funding: $2,500
Award Status: Funded

Proposals Not Funded

Role: Principal Investigator
Project: FRAP-B Artificial Intelligence-Based Cybersecurity Education Training Awareness (AI-

CETA) Curriculum Framework
Source: University at Albany Office of Research
Time Period: 06/01/2021 – 06/30/2022
Total Funding: $5000
Award Status: Not Funded

Role: Co-Principal Investigator (with Principal Investigator Brian Nussbaum)
Project: Remote Environment Vulnerabilities to the Internet of Things (REV-IoT): Horizon
Scanning for   Insight into Arctic IoT Risk
Source: Department of Homeland Security
Time Period: 1 year
Total Funding: $200,000
Award Status: Under Review

Role: Co-Principal Investigator (with Principal Investigator Unal Tatar)
Project: Cyber Supply Chain Risk Analysis
Source: Department of Defense
Time Period: 1 year
Total Funding: $110,000
Award Status: Under Review

Role: Co-Principal Investigator (with Principal Investigator Unal Tatar)
Project: Cyber Supply Chain Risk Assessment: From Components to Products and Missions
Source: DHS Center of Excellence - Cross-Border Threat Screening and Supply Chain Defense
Time Period: 1 year
Total Funding: $60,000
Award Status: Under Review

Role: Co-Principal Investigator (with Principal Investigator Unal Tatar)
Project: Partnership for Racial Equity (PaREty) in: Creating a Pipeline for African American and
        Hispanic Students in Data Science and Cybersecurity
Source: NSF
Period: 5 years
Total Funding: $ 2,000,000
Award Status: Unfunded

PUBLISHED ABSTRACTS AND PRESENTATIONS AT SCHOLARLY CONFERENCES
(*indicates undergraduate student co-author, **indicates graduate student co-author)

*Berkoh E., **Yankson, B**. **Hussein, M., & **Dadson, Y. (2024). Exploring Collaborative
    Approaches to Cybersecurity. *International Conference on Cyber Warfare and Security*,
    19(1), 366–374. https://doi.org/10.34190/iccws.17.1.48

Yankson, B., **Ottah A. (2023). Investigating HIPAA Cybersecurity & Privacy Breach
    Compliance Reporting During Covid-19. 18th Annual Symposium on Information Assurance.
    Empire State Plaza in Albany, NY

*Han, J., **Yankson, B**. (2023). Investigating Cybercrime Using Code Authorship Analysis & 4P Forensic Conceptual Model, 18th Annual Symposium on Information Assurance. Empire State Plaza in Albany, NY.

Yankson, B., *Cajigal, E.D, *Al-Jabri, A., *Gitin, N., & *Davidson, S. (2022). Social Media Privacy Using EDEE Security Model. ICCWS 2022 17th International Conference on Cyber Warfare and Security. Albany, New York, USA

Yankson, B. (2021). An Empirical Study - Privacy and Security Analysis of Companion Robot System Development. ICCWS 2021 16th International Conference on Cyber Warfare and Security (Virtual)

**Yankson, B., **Javid. V. K., Hung, P. C. K., Iqbal, F., and Ali, L. (2021). Security Assessment for Zenbo Robot Using Drozer and mobSF Frameworks. 2021 11th IFIP International Conference on New Technologies, Mobility, and Security (NTMS), (Virtual)

Yankson, B., Salgado, A. L., & Fortes, R. P. M. (2021). Recommendations to Enhance Privacy and Usability of Smart Toys. In Proceedings of the 54th Hawaii International Conference on System Sciences. (Virtual)

Yankson, B. (2020). Autonomous Vehicle Security Through Privacy Integrated Context Ontology (PICO). 2020 IEEE International Conference on Systems, Man, and Cybernetics (SMC). Toronto, Canada (Virtual)

Yankson B., Iqbal F. and Hung P.C.K. (2020). 4P-Based Forensics Investigation Framework for Smart Connected Toys. In Proceedings of the 15th International Conference on Availability, Reliability, and Security (ARES '20). (Virtual)

Lin, P.-C., **Yankson, B**., & Hung, P. C. K. (2020). A Prototype of Privacy Identification System for Smart Toy Dialogue Design. 2020 IEEE International Conference on Networking, Sensing, and Control (ICNSC). (Virtual)

Fantinato, M., **Albuquerque, O. D. P., **De Albuquerque, A. P., Kelner, J., & **Yankson, B.** (2020). A Literature Survey on Smart Toy-related Children's Privacy Risks. Proceedings of the 53rd Hawaii International Conference on System Sciences. (Virtual)

Lin, P.-C., **Yankson, B.**, Lu, Z., & Hung, P. C. K. (2019). Children Privacy Identification System in LINE Chatbot for Smart Toys. 2019 IEEE 12th International Conference on Cloud Computing (CLOUD). (Virtual)

Yankson, B., & *Davis, A. (2019). Analysis of the Current State of Cloud Forensics: The Evolving Nature of Digital Forensics. 2019 IEEE/ACS 16th International Conference on Computer Systems and Applications (AICCSA). Abu Dhabi, UAE

Yankson, B., Iqbal, F., Aleem, S., Shah, B., Hung, P. C. K., & **de Albuquerque, A. P. (2019). A Privacy-Preserving Context Ontology (PPCO) for Smart Connected Toys. 2019 12th CMI Conference on Cybersecurity and Privacy (CMI).

Yankson, B., Iqbal, F., Lu, Z., Wang, X., & Hung, P. (2019). Modeling Privacy Preservation in Smart Connected Toys by Petri-Nets. Proceedings of the 52nd Hawaii International Conference on System Sciences. Hawaii.

Pontes, L., Coutinho, G., Hung, P. C. K., & **Yankson, B. (**2019). Security in Smart Toys: A Systematic Review of Literature. Proceedings of the 21st International Conference on Human-Computer Interaction.

Yankson, B., Iqbal, F., Hung, P. C. K, and Morrison, A. (2017). A Study of Detecting Child Pornography on Smart Phone. Proceedings of the 20th International Conference on Network-Based Information Systems.

Yankson, B . (2018). Course Delivery Culture: Achieving Consistent Learning Outcomes

Within the ISS Program Cybersecurity. "Teach Geek Sessions and Exhibits" (2018). *spark TALKS*. Oakville, Ontario, Canada

INVITED PRESENTATIONS

Yankson, B. (Guest Lecture) "Transitioning from Industry to Academia" Faculty of Business and Information Technology, University of Ontario Institute of Technology, Oshawa, Ontario., February 25, 2024.

Yankson, B. "Privacy Preserving in the era of Connected Devices," College of Emergency Preparedness, Homeland Security and Cybersecurity – INF 721 Class, Albany, New York., November 13, 2023.

Yankson, B. (Keynote) "Privacy, Security, and Safety concerns for Consumer Based Small-Scale IoT Devices" The 6th International Conference on Wireless, Intelligent and Distributed Environment for Communication: WIDECOM, Ontario, Canada. Oct 11, 2023

Yankson, B. "Cybersecurity Research Methods, and Approaches from a Practitioners' Perspective," Faculty of Business and Information Technology, University of Ontario Institute of Technology, Oshawa, Ontario., February 14, 2022. (Online)

Yankson, B. (Panelist), Church of Pentecost USA – Great Albany District" Social Media, Scams & Online Safety Workshop" Schenectady, New York, USA. January 29, 2022.

Yankson, B. (Panelist), CANTON University Cybersecurity Month, " Crazy Life with a Connected Device" Canton, New York, USA. October 22, 2020.

Yankson, B. (Panelist), Panelist, University at Albany's Second Annual Safe, Prepared and Effective Learning Environments, "Phantom Menace: Keeping Students and Schools Safe in Cyberspace" Albany, New York, USA. August 6, 2020.

Yankson, B. CEHC TED Series, "Security and Privacy in the Midst of COVID-19". College of Emergency Preparedness, Homeland Security and Cybersecurity, SUNY – Albany, Albany, New York, USA. April 2, 2020.

Yankson, B(Moderator), "Cybersecurity Career and Diversity Panel" Office Diversity and Inclusion & College of Emergency Preparedness, Homeland Security and Cybersecurity, SUNY – Albany, Albany, New York, USA. March   3, 2020.

Yankson, B. (Panelist), "Cybersecurity Careers and Jobs: Challenges and Opportunities for Diverse Groups" Office Diversity and Inclusion & College of Emergency Preparedness, Homeland Security and Cybersecurity, SUNY – Albany, Albany, New York, USA. February 13, 2020.

Yankson, B. "Protecting Children in Cyberspace: The Internet of Toys and Beyond," Office

Undergraduate Admission SUNY – Albany, Nassau & Suffolk Counties School Counselors, Nassau County Office of Emergency Management, Long Island, New York, USA. November 19, 2019.

Yankson, B. "IoT, Cybersecurity & Privacy Compliance, and Digital Forensics" College of Emergency Preparedness, Homeland Security and Cybersecurity, SUNY – Albany, Albany, New York, USA. November 8, 2019.

Yankson, B. (Guest Lecturer), "Petri Net Data Modeling with Coloured Petri Net(CPN) Tools," BUSI4590U/INFR4599U Topics in Technology Management – Robotics Business, Faculty of Business and Information Technology, University of Ontario Institute of Technology, Oshawa, Ontario., June 4, 2020.

Yankson, B. (Guest Lecturer), "Incident Management and Business Continuity - Security Policy and Risk Management," MITS 5600G: I.T. Security Policies and Risk Management, Faculty of Business and Information Technology, University of Ontario Institute of Technology, Oshawa, Ontario., March 11, 2020.

Yankson, B. (Guest Lecturer), "Petri Net Data Modeling with Coloured Petri Net(CPN) Tools," Ontario Tech Continuous Learning Unit, University of Ontario Institute of Technology, Oshawa, Ontario., July 24, 2019.

Yankson, B. "Research Interview & Ph.D. Experience" INF710 Research design, College of Emergency Preparedness, Homeland Security and Cybersecurity, SUNY – Albany, Albany, New York, USA. Feb 25, 2020.

Yankson, B., "Internet of Things," SOC.300 Internet & Society, Syracuse University, Syracuse, USA, April 23, 2019.

Yankson, B., "Internet of Things Privacy,"iSchool, Syracuse University, Syracuse, USA, April 23, 2019.

Yankson, B., "Privacy Preservation Framework for Connected Toys" Computer Science Dept, OntarioTech University, Oshawa, Ontario, Canada. August 27, 2019.

Yankson, B., "Privacy Preservation for Connected Toys" ECS, Feng Chia University, Taichung, Taiwan. May 21, 2019.

Yankson, B., "Privacy Preservation Framework for Connected Devices" Center for Computational and Data Science, iSchool, Syracuse University, Syracuse, USA, April 23, 2019

Yankson, B. (Guest Lecturer), "Information System Forensics" Zayed University U.A.E, May 2, 2017.

Yankson, B. (Guest Lecturer), "Authentication" U. of Ontario Institute of Technology, February 6, 2018.

Yankson, B. (Guest Lecturer), "O.S. Security" U. of Ontario Institute of Technology, February 6, 2018.

Yankson, B., "Rethinking child safety in the age of connected toys" Sheridan College Cyber Security Symposium 2.0, May 6, 2016.

Yankson, B. (Guest Lecturer), Graduate Exchange Program Presenter, UOIT (Canada) & Shizuoka University (Japan) Program, "Smart Connected Toys Security Framework," February 9 – 28, 2017

MEDIA APPEARANCES

TV Interview. (Jan. 30, 2024). ABC News 10, " UAlbany lab checks for cybersecurity threats in everyday products," ABC News, Albany, New York, USA. January30, 2024. Retrieved from   https://www.news10.com/news/technology/ualbany-lab-checks-for-cybersecurity-threats-in-everyday-products/

Featured. (Jan. 30, 2024) National Cybersecurity News, " Cybersecurity threats in everyday products," Online, USA. Jan.30 2024. Retrieved from https://nationalcybersecurity.com/ualbany-lab-checks-for-cybersecurity-threats-in-everyday-products-hacking-cybersecurity-infosec-comptia-pentest-ransomware/

Featured. (January. 5, 2024) UAlbany News, " CEHC Students Offer Cyber Expertise to the B'nai Sholom Reform Congregation" Online, USA. January 2024. Retrieved from https://www.albany.edu/cehc/news/2024-cehc-students-offer-cyber-expertise-bnai-sholom-reform-congregation

Print Interview. (Dec. 27, 2023). Next Avenue, "Cybercrime Is on a Roll and Older Consumers Are Paying the Freight" nextavenue.com (PBS News) , USA. Dec. 27, 2023. Retrieved from https://www.nextavenue.org/cybercrime-and-older-consumers/

Featured. (Oct. 23, 2023) UAlbany News, " UAlbany CEHC Students - The Cyber Danes - Compete in the Annual Cyber 9/12 Competition" Albany, NY, USA. Oct 23, 2023. Retrieved from https://www.albany.edu/cehc/news/2023-ualbany-cehc-students-cyber-danes-compete-annual-cyber-912-competition

Print Interview. (June. 5, 2023). Government Technology, " IoT Cybersecurity Vulnerability " GovTech.com News, Folsom, California, USA. June. 5, 2023. Retrieved from https://www.govtech.com/education/higher-ed/ualbany-research-looking-for-cybersecurity-vulnerabilities

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TEACHING

University at Albany - SUNY, Albany, New York   September 2019 to Present

- Research, Curriculum Development, and Teaching. Courses taught up to date:

Course Code	Course Title	Enrolled	Days & Times	Class Dates
CYBR536	Info Security Compliance Auditing	28	Online	Fall 2024

CYBR436	Info Security Compliance Auditing	27	Online	Fall 2024
CYBR306	Information Security Assurance	36	Online	Fall 2024
CINF899	Doctoral Dissertation	1	TBA	Fall 2024
CINF476	Honors Thesis Proposal	0	Arranged	Fall 2024
CEHC391	Research Internship	7	Arranged	Fall 2024
CYBR678	Capstone Internship	2	Arranged	Fall 2024
CYBR578	Cybersecurity Internship	3	Arranged	Fall 2024
CYBR678	Capstone Internship	1	Arranged	Summer 2024
CYBR555	Prevention Protection Strategies	5	Online	Spring 2024
CYBR455	Prevention Protection Strategies	34	Online	Spring 2024
CYBR678	Internship Practicum	6	Arranged	Spring 2024
CINF899	Doctoral Dissertation	1	Arranged	Spring 2024
CINF476	Honors Thesis Proposal	1	Arranged	Spring 2024
CEHC391	Research Internship	10	Arranged	Spring 2024
CYBR536	Info Security Compliance Auditing	25	Th 18:00-20:50	Fall 2023
CYBR436	Info Security Compliance Auditing	7	Th 18:00-20:50	Fall 2023
CYBR306	Information Security Assurance	35	Online	Fall 2023
CINF899	Doctoral Dissertation	1	TBA	Fall 2023
CINF476	Honors Thesis Proposal	1	Arranged	Fall 2023
CEHC391	Research Internship	5	Arranged	Fall 2023
CYBR678	Capstone Internship	2	Arranged	Fall 2023
CYBR555	Prevention Protection Strategies	5	Online	Spring 2023
CYBR455	Prevention Protection Strategies	34	Online	Spring 2023
CYBR306	Information Security Assurance	30	TuTh 1330-14:50	Spring 2023
CINF899	Doctoral Dissertation	1	TBA	Spring 2023
CINF475	Honors Thesis Proposal	1	Arranged	Spring 2023
CEHC391	Research Internship	10	Arranged	Spring 2023
CEHC391	Research Internship	8	Arranged	Fall 2022

INF897	Indep Stdy& Research	1	Arranged	Spring 2022
INF306	Information Security Assurance	22	TuTh 13:30 – 14:50	Spring 2022
INF124X	Cybersecurity Basics	99	Online	Spring 2022
INF306	Information Security Assurance	35	Online	Fall 2021
INF306	Information Security Assurance	66	Online	Fall 2021
INF306	Information Security Assurance	26	Online	Spring 2021
INF306	Information Security Assurance	32	TuTh 4:30 PM - 5:30 PM	Spring 2021
INF306	Information Security Assurance	29	Online	Fall 2020
INF456	Independent Research Informatics	1	Arranged	Fall 2020
INF306	Information Security Assurance	31	Tu 10:15-11:35 Th 1:15-2:35	Spring 2020
INF306	Information Security Assurance	32	Online	Spring 2020
INF456	Senior Capstone Project - Cybersecurity Risk Assessment	6	We 1:15-4:05	Spring 2020
INF306	Information Security and Assurance	27	Mo 2:45-4:05 We 2:45-4:05	Fall 2019

Sheridan College, Oakville, Ontario   May 2014 to August 2019
Lecturer Cybersecurity, Faculty of Applied Sci and Technology
- Teaching, Program Development, Course Development Courses taught up to date:

Course Code	Course Title	Enrolled	Days & Times	Class Dates
INFO 16529-P01 (78407)	Security Threats/Risk Assess (Lecture)	19	We 11:00 AM - 2:00 PM	Summer 2019
INFO 24178-P16 (78416)	Computer & Network Security (Lecture)	28	Th 9:00 AM - 12:00 PM	Summer 2019
INFO 24178-P18 (78418)	Computer & Network Security (Lecture)	21	Th 1:00 PM - 4:00 PM	Summer 2019
INFO 37721-P01 (78421)	Info Systems Forensics/Invest (Lecture)	15	Fr 9:00 AM - 12:00 PM	Summer 2019
INFO 16529-P01 (67104)	Security Threats/Risk Assess (Lecture)	20	We 10:00 AM - 1:00 PM	Winter 2019
INFO 16529-P02 (70507)	Security Threats/Risk Assess (Lecture)	29	We 3:00 PM - 6:00 PM	Winter 2019
INFO 30004-P02 (70873)	Information Syst. Sec. Audit (Lecture)	31	Th 4:00 PM - 6:00 PM	Winter 2019

			Mo 1:00 PM - 3:00 PM	
INFO 37721-P01 (67226)	Info Systems Forensics/Invest (Lecture)	25	Fr 9:00 AM - 12:00 PM	Winter 2019
INFO 10111-P01 (56021)	Systems Loss Prevention Method (Lecture)	30	We 11:00 AM - 2:00 PM	Fall 2018
INFO 10111-P02 (59327)	Systems Loss Prevention Method (Lecture)	29	Tu 9:00 AM - 12:00 PM	Fall 2018
INFO 23431-P01 (59581)	Intro to Info Sys Security (Lecture)	30	Mo 11:00 AM - 2:00 PM	Fall 2018
INFO 23431-P02 (59582)	Intro to Info Sys Security (Lecture)	26	Fr 8:00 AM - 11:00 AM	Fall 2018
INFO 24178-P03 (57207)	Computer & Network Security (Lecture)	20	Mo 4:00 PM - 7:00 PM	Fall 2018
INFO 16529-P01 (45915)	Security Threats/Risk Assess (Lecture)	26	Mo 12:00 PM - 3:00 PM	Spring 2018
INFO 24178-P07 (45506)	Computer & Network Security (Lecture)	17	Th 2:00 PM - 5:00 PM	Spring 2018
INFO 24178-P16 (47167)	Computer & Network Security (Lecture)	29	Th 10:00 AM - 1:00 PM	Spring 2018
INFO 37721-P01 (45175)	Info Systems Forensics/Invest (Lecture)	17	Fr 9:00 AM - 12:00 PM	Spring 2018
INFO 16529-P01 (34237)	Security Threats/Risk Assess (Lecture)	26	Fr 1:00 PM - 4:00 PM	Winter 2018
INFO 16529-P02 (38147)	Security Threats/Risk Assess (Lecture)	20	Mo 1:00 PM - 4:00 PM	Winter 2018
INFO 30004-P01 (34692)	Information Syst. Sec. Audit (Lecture)	30	Tu 2:00 PM - 5:00 PM	Winter 2018
INFO 40025-P01 (38609)	Information Age Ethics (Lecture)	32	We 2:00 PM - 5:00 PM	Winter 2018
INFO 10111-P01 (23134)	Systems Loss Prevention Method (Lecture)	27	Mo 10:00 AM - 1:00 PM	Fall 2017
INFO 10111-P02 (26832)	Systems Loss Prevention Method (Lecture)	25	Tu 9:00 AM - 12:00 PM	Fall 2017
INFO 39207-P01 (26560)	Advanced Forensics (Lecture)	36	Th 11:00 AM - 2:00 PM	Fall 2017
INFO 39207-P02 (27582)	Advanced Forensics (Lecture)	20	Fr 9:00 AM - 12:00 PM	Fall 2017
INFO 16529-P01 (13051)	Security Threats/Risk Assess (Lecture)	19	We 1:00 PM - 4:00 PM	Spring 2017
INFO 37721-P01 (12226)	Info Systems Forensics/Invest (Lecture)	10	Tu 4:00 PM - 7:00 PM	Spring 2017
INFO 16529-P02 (6742)	Security Threats/Risk Assess (Lecture)	21	Fr 2:00 PM - 5:00 PM	Spring 2017
INFO 30004-P01 (2745)	Information Syst. Sec. Audit (Lecture)	25	Mo 1:00 PM - 4:00 PM	Spring 2017

INFO 37721-P01 (2388)	Info Systems Forensics/Invest (Lecture)	26	We 8:00 AM - 11:00 AM	Winter 2017
SYST 44998-P01 (5986)	Wireless Security (Lecture)	21	We 12:00 PM - 3:00 PM	Winter 2017
INFO 23431-N02 (93043)	Intro to Info Sys Security (Lecture)	1	TBA	Fall 2016
INFO 23431-P01 (91161)	Intro to Info Sys Security (Lecture)	22	Mo 8:00 AM - 11:00 AM	Fall 2016
INFO 39207-P01 (90406)	Advanced Forensics (Lecture)	23	Th 9:00 AM - 12:00 PM	Fall 2016
INFO 39207-P02 (92391)	Advanced Forensics (Lecture)	17	Fr 3:00 PM - 6:00 PM	Fall 2016
SYST 19866-P01 (86325)	Operating Systems Technologies (Lecture)	22	Th 2:00 PM - 5:00 PM	Fall 2016
INFO 16529-P01 (84401)	Security Threats/Risk Assess (Lecture)	14	We 3:00 PM - 6:00 PM	Spring & Summer 2016
INFO 37721-P01 (83421)	Info Systems Forensics/Invest (Lecture)	11	Th 6:00 PM - 9:00 PM	Spring & Summer 2016
INFO 16529-P01 (73367)	Security Threats/Risk Assess (Lecture)	25	Fr 12:00 PM - 3:00 PM	Winter 2016
INFO 16529-P02 (78592)	Security Threats/Risk Assess (Lecture)	21	Fr 8:00 AM - 11:00 AM	Winter 2016
INFO 30004-P01 (73936)	Information Syst. Sec. Audit (Lecture)	22	We 6:30 PM - 9:30 PM	Winter 2016
INFO 24178-P08 (56964)	Computer & Network Security (Lecture)	12	Fr 8:00 AM - 11:00 AM	Spring & Summer 2015
INFO 24178-P09 (56965)	Computer & Network Security (Lecture)	12	Fr 11:00 AM - 2:00 PM	Spring & Summer 2015
INFO 24178-P10 (57152)	Computer & Network Security (Lecture)	5	Fr 3:00 PM - 6:00 PM	Spring & Summer 2015
INFO 32179-P03 (40400)	Systems Auditing and Security (Lecture)	15	Th 4:00 PM - 7:00 PM	Fall 2014
INFO 24178-P08 (25940)	Computer & Network Security (Lecture)	18	Th 3:00 PM - 6:00 PM	Spring & Summer 2014
INFO 24178-P11 (27070)	Computer & Network Security (Lecture)	16	Th 8:00 AM - 11:00 AM	Spring & Summer 2014

Zayed University, Abu Dhabi, United Arab Emirates   May 2017 to Sept. 2017
Project Research Scientist (Contract), Drone Digital Forensic & Analysis
- Digital forensic experiment and analysis

Mohawk College, Hamilton, Ontario   August 2013 to Dec.2014
Adjunct Professor, Computer Science – CAIST
- Teaching. Courses taught include:

Course Code	Course Title	Enrolled	Days & Times	Class Dates
COMPC0910	Introduction to Networking	60	We 11:00 AM - 2:00 PM	Fall 2014
COMP10052	MS Windows Server Admin Part 1 & 2	30	Th 9:00 AM - 12:00 PM	Fall 2013

Ontario Tech University, Oshawa   May 2013 to Aug. 2013
Graduate Research Assistant, Measuring Privacy Project
- Conduct research into measuring and computing privacy within the Personal Health Information Protection Act(PHIPA) using Deontic Logic and Finite State Machine
- Developed the Final State Machine diagram for various privacy states in support of Dr. Tracy Ann Kosa's Ph.D. work Measuring Privacy thesis.

Ontario Tech University, Oshawa, Ontario   Feb. 2012 to May. 2013
Teaching Assistant, Faculty of Business & Information Technology
- Designed course labs building secure web social media applications (Facebook app, Google apps) using PHP, MySQL, and XAML on Apache webserver; Lead tutorial sessions, grading, and administered online course content for:

Course Code	Course Title	Enrolled	Days & Times	Class Dates
INFR 2140	Object Oriented Programming	50	Th: 1:00 PM - 4:00 PM	Winter 2013
INFR 4460	Web Services & E-Business	28	Th 9:00 AM - 12:00 PM	Winter 2013
INFR 1550	Law and Ethics of I.T.	21	Th 1:00 PM - 4:00 PM	Fall 2012
INFR 4460	Web Services & E-Business	15	Fr 9:00 AM - 12:00 PM	Winter 2012

Doctoral Dissertation Committees

Mehdi Barati (in progress) University at Albany, **Chair of the Dissertation Committee**.

Mildred Bonsu (in progress) University at Albany, **Chair of the Dissertation Committee**

Dimaz Ardhi (in progress) University at Albany, **Chair of the Dissertation Committee**

Elisabeth Dubois (2024) University at Albany, **Member of the Dissertation Committee**

Graduate Internships Supervised

Barati, M. (2022). *Predicting the occurrence of a data breach*. CEHC. University at Albany.

Mehdi Barati (2021). *Open Government Data Programs and Information Privacy Concerns.*

Almaeeni. F. (2020). *Social Robots Privacy Enhancement Using Colored Petri Net (CPN) for Behavior Modeling: A Case Study of Asus Zenbo Robot.* Zayed University. UAE

Undergraduate Students Mentored

Loucks, Tyler. (2022). Robots Security Assessment and Analysis Using Open-Source Tools. CEHC, University at Albany, USA. Undergraduate Internship Supervision

Sampson, Andrea. (2022). Robots Security Assessment and Analysis Using Open-Source Tools. CEHC, University at Albany, USA. Undergraduate Internship Supervision

Lojano**,** Chelsea. (2022). Robots Security Assessment and Analysis Using Open-Source Tools. CEHC, University at Albany, USA. Research Internship Supervision

Cajigal, E.D, (2021). *Social Media Privacy Using EDEE Security Model.* CEHC, University at Albany, USA. Research Project Supervision.

Al-Jabri, A., (2021). *Social Media Privacy Using EDEE Security Model.* CEHC, University at Albany, USA. Research Project Supervision.

Gitin, N. (2021). *Social Media Privacy Using EDEE Security Model.* CEHC, University at Albany USA CEHC, University at Albany, USA. Research Project Supervision.

Davidson, S. (2022). *Social Media Privacy Using EDEE Security Model.* CEHC, University at Albany USA CEHC, University at Albany, USA. Research Project Supervision.

Osterfeld, Ellis. (2020). *Independent Research in Informatics.* CEHC, University at Albany USA CEHC, University at Albany, USA. Research Project Supervision.

Gates, Connor. (2022). *Mobile Digital Forensic Lab.* CEHC, University at Albany USA CEHC, University at Albany, USA. Research Project Supervision.

Kurdi, Cj. (2022). *Virtual Cybersecurity Practice Labs Utilizing Virtual Desktop Infrastructure - A Case Study at the University at Albany, SUNY.* CEHC, University at Albany USA CEHC, University at Albany, USA. Research Project Supervision.

DeSocio, Michael. (2022). *Virtual Cybersecurity Practice Labs Utilizing Virtual Desktop Infrastructure - A Case Study at the University at Albany, SUNY.* CEHC, University at Albany USA CEHC, University at Albany, USA. Research Project Supervision.

McDonough, Jason. (2022). *Virtual Cybersecurity Practice Labs Utilizing Virtual Desktop Infrastructure - A Case Study at the University at Albany, SUNY.* CEHC, University at Albany USA CEHC, University at Albany, USA. Research Project Supervision

Nadimpalli, Nisanth. (2022). *Mobile Digital Forensic Lab.* CEHC, University at Albany, USA. Research Project Supervision.

Walrath, Austin. (2022). *Mobile Digital Forensic Lab.* CEHC, University at Albany, USA. Research Project Supervision.

Bush, Scott. (2020). *VELAN Studio Cybersecurity Assessment.* CEHC, University at Albany, USA. Field Project Supervision.

Bobby, Hughes. (2020). *VELAN Studio Cybersecurity Assessment.* CEHC, University at Albany, USA. Field Project Supervision.

Khadka, Ranjit. (2020). *VELAN Studio Cybersecurity Assessment.* CEHC, University at Albany, USA. Field Project Supervision.

Lopez, Brian. (2020). *VELAN Studio Cybersecurity Assessment.* CEHC, University at Albany, USA. Field Project Supervision.

Valdes, Zachary. (2020). *VELAN Studio Cybersecurity Assessment.* CEHC, University at Albany,

USA. Field Project Supervision.

Williams, Andrew. (2020). *VELAN Studio Cybersecurity Assessment.* CEHC, University at Albany, USA. Field Project Supervision.

SERVICE

College of Emergency Preparedness, Homeland Security, and Cybersecurity at UAlbany

Member, JEDI Committee – 2023-Present
Graduate Director, Cybersecurity   2023 – Present
Chair, Search Committee – Full Professor, AI & Cybersecurity   Nov. 2023 – Mar. 2024
Member, Search Committee Professor, AI & Cybersecurity   Jan. 2023 – Mar. 2023
Member, Search Committee - Associate Professor, AI & Info. Sci, Jan. 2023 – Mar. 2023
Member, Search Committee - Assistant Professor Cybersecurity   Jan. 2023 – Mar. 2023
Member, Ad-hoc Committee for Dr. Omer Keskin's 2nd Year Pre-Tenure Review, 2023-2024
Member, Information Science Ph.D. Program Admission Committee, 2022-2023
Secretary, Curriculum Committee, 2022 – 2023
Secretary, Undergraduate Committee, Aug. 2021 – Aug.2022
ODI Rep., Search Committee, Assistant Professor Cybersecurity, Sept. 2021 – Feb. 2022
ODI Rep., Search Committee, Assistant Professor Information Science, Sept. 2021 – Feb. 2022
Co-Chair, JEDI Committee – Recruitment and Retention Workgroup
Member, Ph.D. Admission Course Waiver Assessment, 2021 – 2022
Course Lead, CYBR306, CYBR455, CYBR536, Aug. 2020 – Present.
Organizer, CEHC Cybersecurity Student Research & Career Social, Online, 2020
Member, Grievance Committee Member, Sept. 2019 – Aug. 2021

University at Albany, State University of New York

Member, Search Committee, Director of Graduate Stud. Support & Diversity Sept 2023 - Present
Member, Council on Research (CoR), 2024 – Present
Chair, Council on Academic Assessment (CAA), 2023 – 2024
Senator, University at Albany, 2023 – 2024
Member, Senate Executive Committee, 2023 – 2024
Member, Council on Academic Assessment (CAA), 2022 – 2023
Co-organizer, Capital Cyber Clash Online Cyber Defense Competition, 2020
Panelist, Diversity in Cybersecurity Talk Series, 2019-2020
Board of Director, Cyber Defense Organization Competition Dec. 2019 – 2020
Faculty Advisor, First Love Christian Fellowship, Nov. 2019 –2024
Faculty Representative, University Recruitment Drive, Nov. 2019

Sheridan College

Member, Search Committee**,** July – August 2019

York University

Member, Dean Search Committee**,** Nov. 2011 – Feb 2012
Member, FES Executive Committee**,** Nov. 2008 – Feb 2010

Professional Service

Workshop Co- Organizer, 2024 HCI International Conference., Washington DC, USA. 2024

Conference Publicity Co-Chair, The 6th IEEE International Conference on Blockchain. Hainan Ocean Flower Island, China. 2023,

Conference Program Chair, International Conference on Cyber Warfare and Security, Albany, NY. USA 2022

Organizer, Cybersecurity Workshop (GlobalCyberTech) at University of Ghana, 2022

Workshop Presenter, Cybersecurity Exchange Series, The Church of Pentecost USA Inc. 2022.

Workshop Organizer, Cybersecurity Awareness at Agona Swedru, Ghana, June 2021
Technical Program Committee Member and Reviewer, International Conference on Innovative Computing and Management Science, 2020 – Present
Editorial Board Member and Member, Emerald Publishing, ISSN:0737-8831, 2020 – present
Reviewer, *IEEE Access*, 2019 - present
Reviewer, *Elsevier – ECRA,* 2021 - present
Reviewer, *IEEE Security and Privacy*, 2019 - present
Reviewer, *Information Security Journal: Springer,* 2020 – present

Professional Affiliation & International Exchange Program

Visiting Scholar, Shizuoka University, Japan, February 9 – 28, 2017
Visiting Research Scientist, Zayed University, U.A.E, April 16- May 14 - 2017.
Visiting Scholar, Feng Chia University, Taiwan May 1 – May 31, 2019.

Training & Certifications

Teaching and Learning Academy (TLA) Certification, Sheridan College, 2018

Security+ Certification, CompTIA, 2006

Microsoft Certified Professional (Windows 7, Server 2008), VTC, 2006

Certified Information Security Professional (CISSP) Training, Self-Study 201

Certified in Risk and Information Systems Control (CRISC) Training, Self-Study, 2018

Summary Industry/Professional IT & Cybersecurity Qualifications

- Ph.D. Computer Science (2020), Master of Information Technology Security (2013), BA Information Technology (2003), Microsoft Certified Professional, CompTIA Sec+;

- Over 15yrs IT Senior Management experience, including hiring and Management of technical teams, Management of IT infrastructure and large-scale enterprise projects, and coordinating critical 24x7 IT operations.

- Over 10yrs Information Security experience, with expertise in conducting Cybersecurity Threat and Risk Assessments, Infrastructure security design, Security Education and Training, Ethical Hacking, and Privacy.

- Experience and knowledge applied a subset of common Industry Standards (ISO27001/2, NIST, COBIT, and FIPS) and Industry Regulatory Standards such as SOX, PCI, GDPR, PHIPA, and   HIPPA,

- Current knowledge of computer law focusing on domestic and international regulation(acts) on patient data management (e.g., PHIPA, Safe Harbor Act, PIPEDA principles, FIPPA act).

- Experience developing, implementing, and testing Business Continuity Planning (BCP), Disaster Recovery Planning (DRP), Incident Response (IR), Crisis Management, and Vulnerability Management.

- Project Management experience involving managing medium to large-scale IT projects (on time, on budget, and to specification), with the ability to work effectively under pressure in an environment with constant interruptions and changing priorities;

- Demonstrated IT product management experience with the ability to handle complete product life cycle, including planning, analysis, defining systems requirements, design, testing and implementation, training, documentation, stakeholder engagement, and operational support.

- Experience liaising and building strong working relations with vendors, such whiles evaluating vendors' SLA performance (IBM Lotus Notes product; Telus CCA, Security Solution, etc.).

- Advanced knowledge of Linux, Windows (XP, 2003, 7, 2008), Mac OS X, and Virtualization ;

- 5 years experience administering Microsoft Active Directory and Novell eDirectoy Experience with software security architecture, installation, and testing methodologies

- Experience teaching and using Open-source Security and hacking tools such as Nmap, OpenVas, OSSEC, Security Onion, Metasploit Framework, Wireshack, Nikto, BackTrack; Vulnerability management tools; Risk assessment tools; Digital forensic investigation and eDiscovery tools

- Excellent communication skills (oral and written) with the ability to accurately elicit information from the client in order to resolve technical and non-technical issues;

- Strong business and technical aptitude: identifying and analyzing business requirements, translating requirements to technical specifications, and resolving challenging technical problems

- Over 7 years of demonstrated a strong record of teaching excellence and scholarly research in the following areas: digital forensics, information/cyber security, ethical hacking, intrusion

detection systems, network security, wireless and mobile security, operating systems, and database security (access control), security analytics, and curriculum development;

Professional Experience – IT & Cybersecurity

CritiCall Ontario / Hamilton H. Sci, Hamilton, Ontario May 2014 to July 2017
Application Manager, Critical Care Information Systems

Responsible for overall product application security, delivery of enhancement, operation, and maintenance of Critical Care Information Systems (CCIS) used in all Intensive Care Units within the province of Ontario Hospitals. Role overseas Security, Privacy, and Compliance to PHIPA, set product direction, managed the ongoing project, oversaw vendor relations, technical system activities, and compliance with all required security and privacy policies. Details include:

- Responsible for all I.T. Security and Operation Critical Care Information Systems (CCIS) Infrastructure

- Identification of Risks and Threats to CCIS and designing mitigation strategies

- Establishes roadmap for future application enhancement

- Ensuring adherence to compliance with all CCIS Security and Privacy Policies

- Ensure all business and technical aspects of the application are managed

- Develop working partnerships with and exert influence on product direction.

- Collaborate in planning, designing, developing, testing, and deploying business processes, policies, or user workflows.

- Ensure all business and technical documentation is current and under document control, including the CCIS technical /user manuals and product specification sheets.

- Ensure the website and document library are current and accurate.

- Review all application deliverables for completeness, quality, and compliance with established project standards.

- Manage enhancement/request logging, prioritization, and business/technology impact assessment.

- Monitor infrastructure and oversee system architecture changes.

- Manage licenses, hardware/software upgrades, and renewals.

- Review and refresh system architecture to meet future demands.

- Manage vendor relations; oversee vendor SLAs and negotiations.

- Lead project management for new releases (may request PMO resources and initiate projects).

- Oversee user adoption and ongoing benefits realization.

- Advise and provide input to Management regarding the overall direction of the CCIS program.
- Provide oversight support for operational decision support.

CritiCall Ontario / Hamilton H. Sci., Hamilton, Ontario June 2013 to May 2014

Technical Lead, I.T. & Decision Support

Responsible for overall technical direction including and not limited to Defining and implementing Security and Information Management framework, Providing ICT leadership, overseeing day-to-day Information Technology infrastructure, and ensuring information and communication services are streamlined and aligned with the business objective. Details:

- Defining and implementing Security and Information Management Framework
- Providing ICT leadership, including planning, coordinating technology
- Overseeing day-to-day Information Technology infrastructure
- Ensuring information and communication services are streamlined and aligned with the business objective within CritiCall Ontario
- Provides expert advice to I.T. Manager in prioritizing, planning, and developing strategic objectives to ensure cost-effective delivery of all essential projects.
- Provide senior-level system administration responsibilities (Managing and maintaining Windows Active Directory, VOIP, Network infrastructure, support, switches, VPN);
- Project Management (Research, develop, and manage various special projects);
- Assisting Security Lead in defining and implementing Security and Information Management framework within organization infrastructure
- Developing I.T Standard Operating procedures and Industry best practices within CritiCall Ontario

York University   Toronto, Ontario   June 2003 to 2014

Head /Coordinator Technical Support FES IT Services

At the Direction of the I.T. Director, responsible for overall technical direction including and not limited to Defining and implementing Infrastructure, Security and Information Management framework; Providing ICT leadership; Overseeing day-to-day Information Technology infrastructure and ensuring information and communication services are streamlined and aligned with the business objective. Details:

- Overseeing and managing the lab and other critical infrastructure, including system security, upgrade, support, planning, and liaison with Network

Operations, Facilities, and other stakeholders on campus

- Overseeing day-to-day Information Technology Operations (Business Continuity Planning, Disaster Planning, Risk Management, prioritizing, scheduling, and managing staff assignments);

- Provide senior-level system administration responsibilities (Maintaining Windows 2008 servers, Windows 2008 Active Directory administration, senior technical support);

- Secure deployment, maintenance, and Management of over four hundred desktop and mobile computers on Windows and Macintosh platforms (Application testing and deployment);

- Provides expert advice to I.T. Director in prioritizing, planning, and developing strategic objectives to ensure delivery of all essential I.T. services and projects;

- Provide ongoing training and supervision to technical support staff (Delegating and monitoring tasks, mentoring junior staff, developing and delivering software/hardware usage training materials to the community);

York University   Toronto, Ontario   2008 to 2009

Interim IT & Facilities Director, FES IT Services — York University, Canada

Responsible for day-to-day operations of IT and Facilities department, including but not limited to setting priorities, managing Helpdesk and Technical staff, setting project priorities and Management, Vendor relations, Physical and Cybersecurity, and Management of lab facilities and computer deployment.

York University   Toronto, Ontario   2001 to 2003

System Specialist, CNS IT Services —

Responsible for day-to-day client technical support on a wide range of user and technical issues.