

Daniel Commey

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RESEARCH INTERESTS

My research focuses on advancing the field of **Cybersecurity** by developing secure and efficient solutions for **Blockchain**, **Internet of Things (IoT)**, and **Cloud Computing** systems, leveraging tools such as **Machine Learning**, **Cryptography**, and **Game Theory**.

EDUCATION

Texas A&M University <i>Ph.D. in Interdisciplinary Engineering</i> • Advisor: Dr. Garth V. Crosby	College Station, TX, USA Aug. 2022 – Present
Kwame Nkrumah University of Science and Technology <i>M.Phil. in Computer Engineering</i> • Advisor: Dr. Griffith S. Klogo	Kumasi, Ghana Sept. 2017 – Nov. 2019
Kumasi Technical University <i>B.Tech. in Accounting with Computing</i>	Kumasi, Ghana Sept. 2017 – Aug. 2019
Kwame Nkrumah University of Science and Technology <i>B.Sc. in Computer Engineering (Honours)</i>	Kumasi, Ghana Sept. 2011 – June 2015

EXPERIENCE

Graduate Assistant <i>Texas A&M University</i> • Conduct various cybersecurity research projects that focus on emerging threats and defense mechanisms. • Support Cybersecurity and Digital Ethics courses by facilitating labs and providing academic assistance.	Fall 2022 – Present College Station, TX, USA
Assistant Lecturer <i>Ho Technical University</i> • Delivered lectures, developed course materials, and facilitated lab sessions for computer engineering courses • Mentored students and contributed to curriculum development	Sept. 2020 – Aug. 2022 Ho, Ghana
Teaching Assistant <i>University of Energy and Natural Resources</i> • Coordinated with lecturers, developed educational materials, and conducted tutorials • Provided academic support to students in computer science and engineering courses	Sept. 2015 – Aug. 2016 Sunyani, Ghana
IT Intern <i>University Information Technology Services (UITS), KNUST</i> • Resolved hardware and software issues and coordinated system maintenance • Developed and delivered user training on essential software applications	June 2014 – Aug. 2014 Kumasi, Ghana

PUBLICATIONS

- Securing Health Data on the Blockchain: A Differential Privacy and Federated Learning Framework**
Daniel Commey, Sena Hounsinou, Garth V. Crosby
arXiv preprint arXiv:2405.11580, 2024
- Securing Blockchain-based IoT Systems with Physical Unclonable Functions and Zero-Knowledge Proofs**
Daniel Commey, Sena Hounsinou, Garth V. Crosby
arXiv preprint arXiv:2405.12322, 2024
- Strategic Deployment of Honeypots in Blockchain-based IoT Systems**
Daniel Commey, Sena Hounsinou, Garth V. Crosby
arXiv preprint arXiv:2405.12951, 2024
- Egan: Evolutional GAN for Ransomware Evasion**
Daniel Commey, Benjamin Appiah, Bill K. Frimpong, Isaac Osei, Ebenezer N.A. Hammond, Garth V. Crosby
2023 IEEE 48th Conference on Local Computer Networks (LCN), 2023
- Performance Comparison of 3DES, AES, Blowfish and RSA for Dataset Classification and Encryption in Cloud Data Storage**
Daniel Commey, Selorm Griffith, James Dzisi
International Journal of Computer Applications, Volume 177, Issue 40, Pages 17-22, 2020

CONFERENCES & WORKSHOPS

6th IEEE International Conference on Artificial Intelligence Circuits and Systems <i>Presenter</i>	Abu Dhabi, UAE <i>April 2024</i>
IEEE 48th Conference on Local Computer Networks <i>Presenter</i>	Florida, USA <i>October 2023</i>
Python for Engineers Workshop <i>Attendee</i>	Ho Technical University, Ghana <i>January 2022</i>
Teaching and Assessment Training Workshop <i>Attendee</i>	Ho Technical University, Ghana <i>April 2021</i>
2019 Second African Workshop on Circuits and Systems <i>Attendee</i>	KNUST, Ghana <i>May 2019</i>
2017 First African Workshop on Circuits and Systems <i>Attendee</i>	KNUST, Ghana <i>November 2017</i>

SERVICE

Judge <i>Texas, USA</i>	2024 Texas Science & Engineering Fair
Judge <i>Texas, USA</i>	2024 Regional High School Science Bowl
Judge <i>Texas, USA</i>	2023 Texas Science & Engineering Fair
Committee member <i>CTVET, Ghana</i>	Validation of Occupational Standards for Computer Science <i>June-July 2022</i>
Committee member <i>Ho Technical University, Ghana</i>	Faculty Academic Board <i>2021-2022</i>
Committee member <i>Ho Technical University, Ghana</i>	Curriculum Development/Review Committee for BTech. Computer Science <i>2021-2022</i>

AWARDS

IEEE CAS Student Travel Grant	IEEE Circuits and Systems Society <i>2024</i>
Travel Award - Multidisciplinary Engineering	Texas A&M University <i>2024</i>
Multidisciplinary Engineering Scholarship	Texas A&M University <i>2023</i>

SKILLS

Programming Languages: Python, Java, C/C++, Solidity, \LaTeX
Tools & Technologies: Git, Docker, Ethereum, Hyperledger Fabric, TensorFlow, PyTorch
Soft Skills: Research, Technical Writing, Presentation, Collaboration
Certifications: CCNA [2016], ISC2 CC [2024]

AFFILIATIONS

Member	Association for Computing Machinery (ACM) <i>2023 - Present</i>
Member	Institute of Electrical and Electronics Engineers (IEEE) <i>2020 - Present</i>