

SAIBERT MARYCLARE TARIRO

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PROFILE

Focused third-year Computer Science student passionate about cybersecurity, cloud computing, and embedded systems. Hands-on projects include a smoke detector and smart home lighting system, with applicable experience in app development. Certified by Mastercard, AWS, Cisco, Google, and IBM. Strong in programming and problem-solving, quick to learn, and eager to apply technical knowledge to real-world challenges.

EDUCATION

Kwame Nkrumah University of Science and Technology Bachelor of Computer Science (BSc.)	January 2023 - November 2026 Kumasi, Ghana
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Mastercard Foundation Scholar: Awarded for academic excellence, innovative thinking, leadership, and commitment to developing initiatives that foster sustainable and inclusive economic development and giving back to the community.

Google Cybersecurity Professional Certificate Google	July 2025 – September 2025 Coursera
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- Completed a nine-course program covering cybersecurity foundations, networks and network security, threat analysis, detection and response, risk management, Linux and SQL, Python automation, and AI tools for security.
- Earned separate certificates for each course, demonstrating mastery of practical cybersecurity skills and preparation for real-world roles.

PROFESSIONAL EXPERIENCE

Cyber Threat Analyst Intern Cybersecurity Internship	Sept 2025 – Present ShadowFox Remote
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- Conducted web app penetration tests using Nmap, dirsearch/dirb, and Kali Linux to identify open ports, hidden directories, and misconfigurations.
- Captured and analyzed network traffic using Wireshark and VeraCrypt to assess authentication flows and credential exposure.
- Built and tested exploit payloads in a virtual lab using Metasploit and wireless handshake-capture tools for defensive analysis.
- Documented findings with risk ratings and mitigation steps, strengthening reporting, lab discipline, and secure practices.

Data Analyst Intern ShadowFox	Sept 2024 – October 2024 Remote
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- Contributed to research reports by generating data-driven insights for decision-making.
- Applied Python with Pandas, NumPy, and Matplotlib to clean, process, and interpret datasets.
- Assisted in developing predictive models and experimenting with machine learning techniques.
- Strengthened skills in problem-solving, data visualization, and collaborative teamwork.

Management Assistant Destiny of Africa Network Organization	January 2022 - December 2022 Harare, Zimbabwe
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- Directed recruitment processes by screening CVs, coordinating interviews, and ensuring smooth onboarding of new personnel, strengthening the organization's talent base.
- Streamlined departmental operations by managing schedules, monitoring task progress, and delivering timely status reports to leadership for informed decision-making.
- Partnered with the CEO and founding team on organizational structure, drafting job descriptions, defining roles, and advising on more effective workflows.

Mastercard Cybersecurity virtual experience program Forage	September 2025 – September 2025 Remote
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- Completed a job simulation where I served as an analyst on Mastercard's Security Awareness Team
- Helped identify and report security threats such as phishing.
- Analysed and identified which areas of the business needed more robust security training and implemented training courses and procedures for those teams.

PROJECTS/RESEARCH EXPERIENCE

Code Quest Fair Project

Mobile App Project (ByteBridge)

May 2024 - August 2024

CSS, KNUST

- Served as Database Engineer on a team project to develop *ByteBridge*, a file and media sharing mobile application.
- Designed and managed PostgreSQL database structures and queries to support app functionality.
- Collaborated with Backend and UI/UX teams to ensure smooth integration and performance.
- Strengthened skills in teamwork, database management, and software development lifecycle.

Smartii – A Web-Based Smart Home Controller

Group Manager of the Embedded Systems Project

January 2025 – September 2025

KNUST

- Led a 5-member team in designing and implementing a smart home controller using Python Flask and Arduino UNO, enabling remote light management across multiple rooms.
- Integrated an 8-pin relay module with Arduino for real-time device control through a secure web dashboard.
- Coordinated team tasks, supervised hardware setup, and managed the poster and abstract presentation under Research Methods & IT Project Management.
- Achieved successful demonstration of reliable light switching, proving the system's potential for energy efficiency and home security applications.
- Proposed future system enhancements, including voice control, AI-based automation, and cloud integration.

PROFESSIONAL TRAINING/ CERTIFICATION

IBM Cloud Computing Fundamentals	August 2025	IBM
IBM Python for Programmers	August 2025	IBM
Cisco Introduction to Cybersecurity	June 2025	IBM
Data Science	September – 2024	ShadowFox
Cybersecurity and Digital Forensics	September 2023	CCBI of KNUST

SKILLS AND ABILITIES

- Proficient in **Microsoft Office, Visual Studio Code, Git/GitHub/GitLab, Slack, and Kali Linux**.
- Programming experience in **Java, C++, Python (including Python for Cybersecurity), HTML, SQL, and Linux Shell Scripting**.
- Database management with **PostgreSQL, pgAdmin, and MySQL**.

REFEREES

Dr L.A. Banning

KNUST

Department of Computer Science

Project Supervisor

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