SULEIMAN SABO MUHAMMAD

Newcastle Upon Tyne, United Kingdom

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RESEARCH INTERESTS

Cyber-Physical Systems (CPS) Security, Adversarial Machine Learning, real-time anomaly detection, and classification.

EDUCATION

PhD Computer Science
2025 – Present

Newcastle University — *Newcastle, United Kingdom*

- Researching real-time anomaly detection and attribution in Industrial CPS using AI-driven approaches.

MSc Cyber Security – Distinction
2023 – 2024

Newcastle University — *Newcastle, United Kingdom*

- Dissertation: Evaluated risk assessment strategies using the SWaT CPS testbed.
- Grade: 80%

BSc Computer Science (Software Engineering) – 1st Class Honours
2020 – 2023

Newcastle University — *Newcastle, United Kingdom*

- Dissertation: Studied digital signatures for secure, accessible e-voting in Nigeria. Grade: 75%

Foundation in Science, Computing, Engineering and Mathematics
2020

INTO Newcastle University — *Newcastle, United Kingdom*

- Completed with 84%. Met direct-entry requirements for undergraduate study.

EXPERIENCE

Newcastle University
2026 – Present

Student Ambassador — *Newcastle, United Kingdom*

- Representing Newcastle University at outreach, recruitment, and engagement events for prospective students.
- Providing peer-to-peer guidance on academic life, research culture, and student experience.

Secure and Resilient Systems (SRS) Group
2025 – Present

Research Assistant — *Newcastle, United Kingdom*

- Supporting research activities within the Secure and Resilient Systems (SRS) Group.
- Contributing to experimental design, data analysis, and implementation of CPS security and AI-driven research projects.
- Assisting with literature reviews, technical reporting, and prototype development for funded research initiatives.

National Edge Artificial Intelligence Hub
2025 – Present

Researcher — *United Kingdom*

- Conducting research on Federated Learning, Edge AI, and secure distributed intelligence.
- Evaluating robustness of edge-based AI systems under adversarial, communication, and system-level threats.

LightGate Solutions Ltd
2025 – Present

Chief Information Security Officer (CISO) — *United Kingdom*

- Leading information security strategy, governance, and risk management across enterprise digital platforms.
- Designing secure system architectures and overseeing secure software development practices.
- Managing security audits, threat assessments, and compliance with industry best practices.

Newcastle United FC
2021 – Present

Matchday Assistant — *Newcastle, United Kingdom*

- Managed crowd control and ensured safety during major football events.

Kuyan Integrated Farm
2019 – Present

Assistant Manager — *Nigeria*

- Managed inventory, financial records, and digital systems to streamline farm operations and ensure accountability.

TECHNICAL SKILLS

- **Languages:** Python, Java, C, Kotlin, JavaScript, HTML, CSS

- **Frameworks/Tools:** Django, React, Firebase, SonarQube

- **Additional:** Knowledge of machine learning concepts and data analysis

- **Operating Systems:** Linux, Windows

KEY PROJECTS

Secure Chat Platform   2024
React, Firebase, AES, Steganography
  - Developed an encrypted messaging platform using React and Firebase for real-time communication.
  - Applied AES encryption and steganography to embed messages securely within image files.
  - Led threat modeling and contributed to designing a robust security policy.
  - Achieved 100% on technical report and 90.4% overall project grade.

Predictive Analysis of Weather Trends   2023
Python, Raspberry Pi, LSTM, ARIMA
  - Built a time-series prediction system to forecast weather using local sensor data.
  - Compared forecasting models (LSTM, ARIMA) and optimized LSTM achieving $R^2 = 0.9675$.
  - Automated collection and preprocessing of data using Raspberry Pi edge computing.

Rubbish App – United Nations Sustainable Development Goals   2022
Mobile App, Community Mapping
  - Collaborated on a mobile app enabling users to report and map unclean areas to promote environmental hygiene.
  - Aligned with UN SDGs to encourage community-driven waste monitoring and intervention.

Lottery Web Application   2021
Django, HTML/CSS, SQLite
  - Implemented a lottery system with member-based and randomized number selection options.
  - Designed admin interfaces to securely manage draw outcomes and user activity.

Blogging Web Application   2021
Django, Bootstrap, SQLite
  - Created a blogging platform with full CRUD operations and role-based access for users and admins.
  - Enabled admin-controlled publishing workflows and enforced secure login mechanisms.

CERTIFICATIONS

- **ISC^2 Certified in Cybersecurity (CC)** – Completed modules on Security Principles, Incident Response, and Business Continuity/Disaster Recovery (2024).

- **London School of Business and Finance (LSBF)** – Certificate in Global Policy (2023).

- **Government College of Engineering (India)** – Python for Data Science (2023).

AWARDS & FUNDING

- **Sage & School Prize (2024):** Awarded for outstanding academic performance as the top MSc Cyber Security student in the School of Computing at Newcastle University.

- Funding to attend the CISPA Summer School 2024 on Usable Security in Saarbrücken, Germany.

- **Petroleum Technology Development Fund (PTDF) Scholarship (2023):** Received a fully funded scholarship covering tuition, visa fees, accommodation, living expenses, and travel for postgraduate study in the UK.

- **Top Academic Performance in Principles of Computing (2022):** Achieved the highest score in the module with a grade of 95%, demonstrating strong proficiency in foundational computing concepts.

Hobbies

- Football enthusiast with interests in running and FIFA gaming during leisure hours.