Mohammed Auwalu Dayyabu

Nottingham, UK · +44 7344 060127 · muhammedauw04@gmail.com
linkedin.com/in/mohammedauwalu · github.com/whoismuhd · trychoices.app

PROFILE

Software engineering graduate completing an MSc in Cyber Security, expected to graduate in 2027. Built and maintained full-stack applications for external users using Python, JavaScript and SQL, alongside cloud engineering internship experience. Interested in developing reliable, secure software through hands-on engineering and collaboration with technical and non-technical colleagues.

EDUCATION

MSc Cyber Security, Nottingham Trent University, UK **Jan 2026–May 2027 (expected)**

Modules: Network and Cloud Security, Computer Forensics, Ethical Hacking

Dissertation: ForensicReadyLambda, submitted August 2026 (result pending)

BSc Software Engineering, Istanbul Aydin University, Turkey **Aug 2021–Jul 2025**

Recognised by ECCTIS as comparable to British Bachelor (Honours) degree standard

Selected modules: Data Structures, Object-Oriented Programming, Operating Systems, Software Project Management

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML and CSS

Backend and data: FastAPI, PostgreSQL, REST APIs, JWT authentication, Supabase

Frontend: React, Next.js, React Query, Tailwind CSS

Cloud and infrastructure: AWS (Lambda, S3, IAM, CloudWatch, CloudTrail, SES, EC2), Docker, Terraform, Linux

Engineering practices: Git, GitHub Actions, pull request review, unit testing, Agile delivery, technical documentation

PROFESSIONAL EXPERIENCE

Research Assistant, Nottingham Trent University **Apr–Aug 2026**

- Developed ForensicReadyLambda, a Python research toolkit to audit AWS Lambda logging readiness, collect CloudTrail and CloudWatch evidence, and reconstruct incident timelines through customer-accessible APIs.
- Implemented SHA-256 artefact hashing, CloudTrail digest validation and S3 Object Lock preservation to detect evidence changes and protect captured records.
- Designed and evaluated four attack scenarios against predefined evidence requirements: configured logging captured every expected item in each scenario, while comparison configurations each missed one.

Cloud Engineering Intern, BitMarkets Technologies **Nov 2024–Jun 2025**

- Built transactional email infrastructure with Amazon SES for a cryptocurrency platform, delivering scoped tickets and submitting code through pull request review.
- Developed integrations with external cryptocurrency APIs to automate steps in the transaction workflow.
- Collaborated with engineers and product colleagues through daily stand-ups, ticket scoping and sprint delivery; contributed to internal engineering documentation.

PROJECTS

Choices | Co-founder and engineer | trychoices.app

- Built and deployed a Next.js, React and Tailwind CSS application that converts product ideas into requirements, user stories, sprint tasks and market research.
- Addressed the challenge of making AI-generated research traceable by linking outputs to source signals; integrated language model APIs and role-based access for multi-user projects.
- Implemented exports to Linear, GitHub and Cursor to support users moving from product planning into development.

Construction Inventory Management System **2023–present**

- Built and maintain an inventory and request management application used daily by three construction companies in Nigeria and South Africa, using FastAPI, PostgreSQL, React and React Query.
- Implemented JWT authentication and role-based access control to separate access across three client organisations.
- Gather requirements from site managers and storekeepers, deliver fixes and write plain-language guides for each user role.

CERTIFICATIONS

AWS Certified Solutions Architect – Associate · AWS Certified Cloud Practitioner

LEADERSHIP AND VOLUNTEERING

AWS Student Builder Group Leader, Nottingham Trent University **May 2026–May 2027**

- Delivered an introductory AWS session to help students understand cloud concepts and become familiar with AWS services.
- Support students as they explore AWS, explaining unfamiliar concepts and sharing learning resources to build their confidence.

Volunteer, Nottinghamshire Festival of Science and Curiosity **2025 and 2026**

- Delivered interactive STEM demonstrations to children and families, adapting explanations and pacing for different audiences.