Muano Masiagwala

Software Engineer at AWS · EC2

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EXPERIENCE

Software Engineer, EC2 Jul 2025 – Present

Amazon Web Services

- Build the patching automation that keeps EC2's underlying infrastructure up to date.
- Support internal fleet management at AWS, including scaling and operating fleets through extensive automation.
- Own products end to end, from the first idea through design and implementation to production.

Cloud Apprentice Mar 2025 – Jun 2025

Afrika Tikkun

- Completed an apprenticeship in cloud fundamentals covering core cloud concepts, Azure services, security, and governance.
- Earned the Microsoft Azure Fundamentals (AZ-900) certification.

EDUCATION

BSc Computer Science 2022 – 2024

University of the Witwatersrand, Johannesburg

SKILLS

Languages	Java, TypeScript, JavaScript, Python, C++, SQL
Cloud & DevOps	AWS, Azure, Firebase, Linux, Git, GitHub Actions, CI/CD
Frameworks	React, Next.js, Node.js, Express.js, Tailwind CSS, TensorFlow, Pandas, scikit-learn
Databases	PostgreSQL, MySQL, Microsoft SQL Server, MongoDB, Firestore

PROJECTS

Sudoku Arena C++20, WebAssembly, TypeScript

Sudoku engine with four solvers, compiled to WebAssembly and visualised step by step.

CureCloud – Health Management System React, Firebase, Express.js

Digital system replacing paper records in public hospitals, with specialist booking and centralised medical data.

Wits Lively Campus React, Firebase Functions, Swagger

Campus events platform with real-time notifications, file uploads, a documented REST API, and CI with code coverage.

Algorithm Quest Next.js, TypeScript

Interactive, gamified visualisations for learning sorting algorithms and data structures.

CERTIFICATIONS & AWARDS

- Microsoft Certified: Azure Fundamentals (AZ-900), May 2025
- Top-performing Sudoku Solver in class project; smartest Snake AI Agent in tournament-based testing