

MOHAMMED SAIDU

Software Development Engineer | Full-Stack Developer

saidumomo@gmail.com | +353 89 403 6497 | Website – Mosaidu.com | Kilcock, Ireland

SUMMARY

Full stack Software Development Engineer with production experience building ML-powered services at scale, processing millions of daily requests across 50+ global regions. I write clean, well-tested code (89%+ coverage), ship reliable systems, and resolve production incidents end-to-end. My core stack is Java, Python, TypeScript, and React, but I'm the kind of engineer who doesn't stay in one lane. I've built real-time computer vision systems with YOLO and Arduino, shipped a full-stack product research tool (live at fba.mosaidu.com), and run my own cloud infrastructure with Docker, CI/CD, and self-hosted services. I care about code quality, automation, and building things that work under pressure.

TECHNICAL SKILLS

Languages: Java (primary), Python, TypeScript, JavaScript (React), SQL, C++ (Arduino), Groovy, Ruby

Full-Stack Development: React, Node.js, Express, REST APIs, Tailwind CSS, SQLite, PostgreSQL, DynamoDB

Cloud & Infrastructure: AWS (CloudWatch, S3, DynamoDB, SQS, Lambda, EC2, IAM, CloudFormation), Docker, CI/CD pipelines, GitHub Actions

Code Quality & Practices: Test-driven development (89%+ coverage), code review, debugging, feature flags, distributed systems design

AI/ML: Time-series forecasting, anomaly detection algorithms, local LLM deployment (Ollama), computer vision

PROFESSIONAL EXPERIENCE

SOFTWARE DEVELOPMENT ENGINEER

Amazon Web Services - CloudWatch Predictions Service | Dublin, Ireland | March 2025 - January 2026

ML-based operational monitoring service processing millions of predictions daily across 50+ AWS regions globally.

Production Software Development:

- Developed and maintained production-grade Java services handling millions of daily requests with 89%+ test coverage
- Implemented configurable ML algorithm enhancements with comprehensive unit and integration testing
- Designed filtering logic resolving high-severity incidents, achieving 95% reduction in unnecessary compute operations
- Built internal CLI automation tool reducing debugging workflow setup from 5+ minutes to seconds

Code Quality & Review:

- Contributed 40+ production commits including retry mechanisms, observability improvements, and resource management fixes
- Maintained strict code review standards ensuring efficiency, scalability, and reliability across all changes
- Integrated feature flag system for safe, incremental rollouts of new functionality

Software Engineering Lifecycle:

- Primary on-call engineer managing production incidents across 50+ AWS regions with 100% resolution rate
- Authored technical investigation documents with root cause analysis, debugging rationale, and remediation plans
- Enhanced operational runbooks and monitoring documentation for production systems
- Diagnosed complex issues including prediction failures, model degradation, and infrastructure problems

FULL-STACK DEVELOPMENT PROJECTS

FBA Research Automation Tool | React, TypeScript, Express, Node.js, Docker, SQLite

- Built production-grade full-stack application with React/TypeScript frontend and Express/Node.js backend

- Implemented RESTful API architecture with multiple third-party API integrations (Keepa, SerpAPI, Rainforest)
- Deployed containerised application with Docker, GitHub Actions CI/CD, and Cloudflare infrastructure
- Live deployment: fba.mosaidu.com – demonstrates end-to-end software delivery

Computer Vision System | Python, YOLO, C++ (Arduino)

- Developed real-time object detection pipeline using YOLOv8 with hardware integration
- Implemented Python-to-Arduino serial communication protocol for servo control system
- Designed modular architecture separating ML inference from hardware layers

Self-Hosted Cloud Infrastructure | Docker, Linux, Cloudflare, CI/CD

- Architected multi-device infrastructure with containerised services and automated deployments
- Configured secure networking with Cloudflare Tunnels, Tailscale VPN, and DNS management
- Deployed monitoring stack (Prometheus/Grafana), local LLM inference (Ollama), and self-hosted CI runners

KEY ACHIEVEMENTS

- Production code at Amazon scale: 40+ commits to services processing millions of daily requests
- 98% reduction in debugging workflow time through automation tooling
- 95% reduction in unnecessary compute through optimisation implementation
- 100% on-call ticket resolution across 50+ AWS region rotation
- 89%+ test coverage maintained across all production contributions

EDUCATION

BSc Computer Science - Maynooth University, Ireland | 2025

CERTIFICATIONS

- AWS Certified Solutions Architect (2025)
- Python Professional Certificate
- Project Management Certificate

AVAILABILITY

Location: Dublin, Ireland | Available for flexible contractor engagement