

JAMES MBOMA

Software Engineer

✉ oyotostudios@outlook.com
🌐 [linkedin.com/in/james-mboma](https://www.linkedin.com/in/james-mboma)
🔗 github.com/mboma99

Profile

Backend-focused Software Engineer specialising in authentication, security, and highly available microservices within fintech and enterprise environments. Experienced in building scalable systems using Java, Spring Boot, and AWS, with a proven record of improving system resilience, onboarding efficiency, and test automation.

Work Experience

Software Engineer

Worldpay | London, Sep 2024 - Present

- Maintain security of critical authentication edge services, fixing service vulnerabilities and updating service dependencies.
- Designed and built a production-grade performance testing environment for a client-facing mTLS platform used by a major UK supermarket chain ahead of peak trading period, ensuring scalability, resilience, and production readiness.
- Expanded Java-based onboarding services, reducing SMB merchant onboarding time from two weeks to under one hour.
- Automated end-to-end testing by integrating Postman CLI into an AWS EC2 environment and Jenkins CI/CD pipelines, reducing QA execution time by 80%.
- Led disaster recovery and resilience testing across distributed microservices, validating failover mechanisms and ensuring compliance with 99.999% SLA targets.

Data Analyst

Lloyds Banking Group | Birmingham, Jun 2024 – Aug 2024

- Built data transformation pipelines to support senior leadership with improved reporting and analysis.
- Developed a proof of concept using Copilot to summarise and categorise client presentations, reducing delivery time of critical analysis by 30%.
- Collaborated with stakeholders to translate operational requirements into actionable data insights.

Machine Learning Engineer

Nike | Hilversum, Sep 2022 – Aug 2023

- Developed a recommender system using Databricks, Snowflake, and PySpark to increase user lifetime value.
- Built a classification model using a feedforward neural network, doubling user engagement across Nike platforms.
- Refactored ML pipelines and removed redundant data sources, reducing cloud costs and improving model build times.
- Implemented automated unit testing to ensure reliability and data integrity.
- Presented findings to cross-functional stakeholders, promoting transparency and data-driven decision-making.

Education

Software Engineering with Year in Industry (BSc) - *First Class*

De Montfort University | 2020 – 2024

Skills

Backend: Java (Spring Boot), Python (FastAPI), Fastly

Cloud: AWS (EC2, S3, IAM, ECS, ECR), Docker, Redis, Vault

CI/CD: Jenkins, Concourse, GitHub Actions

Databases: PostgreSQL, Snowflake, Cassandra, DynamoDB, SQLAlchemy/SQLModel

Testing: JUnit, Postman, TDD, JaCoCo, Pytest

Projects

ConGraduation (Full-stack Web Application)

- Built a full-stack graduation photo platform with customer and admin portals enabling photo discovery, portfolio management, and online purchasing.
- Designed and implemented ~32 RESTful API endpoints with JWT-based authentication and role-based access control (RBAC) for secure account and media workflows.
- Integrated AWS S3 for scalable image storage and Stripe Checkout for secure payments; implemented service-layer tests to validate core business logic and error handling.