

OLUWAYOMI BAMIDELE

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PROFESSIONAL SUMMARY

Full-stack engineer with five years of hands-on experience building and shipping production web systems, with a particular focus on fintech platforms and cloud-native architectures. At OneCap Africa, I led the technical rebuild of a live consumer product, migrating to AWS, implementing PWA support, and delivering a gamified savings system with automated wallet and draw logic. Currently completing an MSc in Computer Science & Technology with Business Development at Ulster University, which has sharpened both my machine learning fundamentals and my approach to data-driven product thinking.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Python, R, HTML5, CSS3

Frameworks: React.js, Node.js, Express.js, Django, TailwindCSS, Redux

Cloud & DevOps: Azure (Blob Storage, Cosmos DB, Functions), AWS, Docker, GitHub Actions (CI/CD)

Databases: MongoDB, PostgreSQL, MySQL, Cosmos DB, InfluxDB

Data & ML: Pandas, Matplotlib, Scikit-learn (via R/Python), XGBoost, Hadoop, Hive, Spark, HDFS

Tools & Other: Git, REST APIs, Swagger, PWA, Agile/Scrum, WCAG accessibility standards

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer & Tech Lead | OneCap Africa May 2023 – Present

- Took on full technical ownership of the platform rebuild, redesigning the architecture, reworking the UI, and shipping a substantially improved product to real users.
- Led the migration from a monolithic setup to an AWS cloud-native architecture, improving scalability and reducing infrastructure overhead.
- Shipped PWA support as an alternative to native mobile apps, cutting development costs and broadening device reach without sacrificing user experience.
- Designed and built a gamified savings pool system with automated wallet allocation and randomised draw logic, backed by Django and PostgreSQL.
- Improved server-side caching strategies that reduced page load times noticeably and contributed to better user retention metrics.
- Worked across the stack from Django backend services to React front-end while coordinating with stakeholders on roadmap and release planning.

Full-Stack Developer | Goldbrown Oct 2019 – Apr 2023

- Led front-end development on a large-scale news and media platform, building modular React components and integrating multiple content APIs.
- Designed and maintained a RESTful backend layer using Node.js and Express, supporting dynamic content delivery and user authentication flows.
- Implemented full CRUD operations with MongoDB, including schema design decisions that supported the platform's content volume.
- Managed day-to-day cross-functional communication between engineering, editorial, and product teams, including go-to-market coordination for new features.
- Helped establish code review practices and branching conventions that improved team consistency as the codebase grew.

SELECTED PROJECTS

Cloud-Native Image Sharing Platform January 2026

Built a scalable, event-driven image sharing system inspired by Instagram, designed to handle large media uploads without blocking the user experience.

Stack: React, Node.js + Express, Azure Blob Storage, Cosmos DB, Azure Functions, GitHub Actions

- Designed a decoupled architecture separating the API, storage, and processing layers, each independently scalable.
- Used Azure Functions for asynchronous thumbnail generation, keeping uploads fast and the UI responsive even under load.
- Set up CI/CD pipelines with GitHub Actions for automated, environment-specific deployments, applying DevOps patterns to a genuinely complex system.

Heart Failure Prediction – Machine Learning April 2026

Developed and benchmarked multiple classification models for early heart disease prediction using a clinical dataset of 917 patient records.

Stack: R, CRISP-DM methodology, Logistic Regression, Random Forest, SVM, XGBoost

- Ran full data preprocessing, exploratory analysis, and feature engineering before modelling grounding model decisions in the data.
- Implemented and compared four algorithms (Logistic Regression, Random Forest, SVM, XGBoost) evaluated on Accuracy, Recall, F1 and AUC-ROC.
- Applied CRISP-DM throughout to maintain a structured, reproducible analytical process, useful preparation for ML work in production contexts.

Big Data Analysis – Air Quality & Health (UK) November 2025

Analysed respiratory mortality and CO₂ emissions data at scale to surface correlations between pollution levels and public health outcomes.

Stack: Hadoop, Hive, Apache Zeppelin, HDFS

- Built end-to-end data pipelines on Hadoop to handle large-scale environmental datasets, writing advanced Hive queries for aggregation and filtering.
- Produced visualisations in Zeppelin that clearly showed geographic and temporal correlations between pollution and respiratory health metrics.

Digital Transformation Strategy – Netflix March 2026

Developed a data-driven strategic analysis of Netflix's digital transformation, combining descriptive analytics on real content data with business transformation frameworks.

Stack: Python, Pandas, Matplotlib, Netflix Titles dataset

- Analysed content growth trends, genre distribution, and global production patterns from the dataset to support strategic observations.
- Applied frameworks, including Platform Business Models and AI Competitive Advantage, to contextualise Netflix's use of data and cloud infrastructure.

EDUCATION

MSc Computer Science & Technology with Business Development 2025 – Present (Expected Oct 2026)

Ulster University, United Kingdom

BSc Information & Communication Science 2015 – 2019

University of Ilorin, Nigeria

CERTIFICATIONS

- Front-End Apps with React
- Back-End Apps with Node.js & Express
- AI Applications with Python & Flask
- Python for Data Science, AI & Development
- Software Product Management Specialisation