

AUGUSTINE IGWE

Software Engineer | Product Engineer | Fullstack Engineer

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PROFILE SUMMARY

I'm an experienced engineer with 7+ years of experience designing, building, and modernising scalable cloud-native applications, distributed systems, and AI-powered solutions across public and private sectors. I have a proven track record of delivering secure, high-quality digital services throughout the full software development lifecycle, with expertise in modernising legacy platforms, architecting serverless and event-driven solutions on AWS, and integrating AI and Large Language Model (LLM) capabilities into user-centric products. Delivered large-scale, citizen-facing government services used by millions across the UK, contributing to the modernisation of critical digital infrastructure at the DVLA and developing API-first, cloud-native solutions aligned with Government Digital Service (GDS) Service Standards, accessibility requirements, and security-by-design principles. Passionate about solving complex technical challenges, driving engineering excellence through automation and internal tooling, and leveraging emerging technologies to deliver measurable business and user impact.

EDUCATION

- MSc. Management and Artificial Intelligence (*September 2023 – September 2024*) Swansea University, Swansea, Wales, United Kingdom.
- B.Eng Electrical/Electronic engineering (*November 2014 – December 2019*) Federal University of Technology, Owerri.

SKILLS AND TECHNICAL PROFICIENCIES

- Programming languages: JavaScript, TypeScript, Go, Python, Ruby on Rails, Java, SQL
- Frontend Technologies: React, Next.js, React Native, Redux, Context API, HTML5, CSS3, SCSS, Tailwind CSS
- Backend Technologies: Node.js, Express.js, FastAPI, NestJS, GraphQL, REST APIs, WebSockets, Server-Sent Events (SSE)
- AI & Machine Learning: OpenAI API, LangGraph, LangChain, Agentic AI Systems, Retrieval-Augmented Generation (RAG), LLM Integration, Prompt Engineering
- Cloud & DevOps: AWS (Lambda, Step Functions, S3, EventBridge, SQS, DynamoDB, RDS), Google Cloud Platform, Firebase, DigitalOcean, Docker, Kubernetes, GitHub Actions, CI/CD
- Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis, Prisma ORM, Mongoose
- Architecture & Engineering Practices: Serverless Architecture, Event-Driven Systems, Distributed Systems, Microservices, System Design, API Design, Agile Development, Test-Driven Development (TDD), SDLC
- Testing & Developer Tools: Jest, Vitest, Puppeteer, Postman, Swagger/OpenAPI, Git, Linux

WORK EXPERIENCE

Senior Software Engineer

[MadeTech](#) (Client: [DVLA](#)), Swansea, United Kingdom (October 2024 - present), Full-time

- Developed and maintained large-scale digital services that enable millions of people to apply for, renew, and manage their UK driving licences securely and efficiently.
- Led the re-architecture of DVLA image processing from a monolithic AWS Lambda architecture to distributed serverless solution orchestrated with AWS step functions enabling parallel processing increasing the speed of customer's uploaded images by 65%.
- Delivered an AI-powered identity verification solution using AWS Rekognition, allowing clerks to compare user-uploaded images against trusted government-held records to support secure and accurate citizen verification processes.
- Contributed to the development of internal testing tools using Ruby that generated driving licence applications at various review stages (Supervisor, Clerk, and Fraud), significantly improving developers' ability to test features, reproduce scenarios, and accelerate delivery.

- Delivered a Post Office integration enabling customers to submit driving licence applications offline, building an event-driven serverless architecture using AWS step functions, DynamoDB streams, EventBridge pipes, and SQS to automate application processing and task routing for operational review teams.
- Investigated, diagnosed, and resolved production incidents affecting digital driving licence services using PagerDuty, Elasticsearch, and Amazon CloudWatch, minimising service disruption and improving system reliability.

Founding Engineer

[LightWork](#), London, United Kingdom (*October 2023 - September 2024*), Contract

- Designed responsive web pages for the entire user journey, including landing, onboarding, dashboard, and feature interfaces, optimized for performance and user engagement.
- Improved page load times by 95% through code splitting, lazy loading, efficient data fetching, image compression without quality loss, and caching with service workers.
- Set engineering standards across the team: owned technical design decisions, mentored junior engineers, and maintained production infrastructure on AWS through the full SDLC from prototype to post-launch.
- Engineered an event-driven microservice architecture with Kafka, boosting resilience by 30% and reducing processing time by 40%.

Senior Fullstack Engineer

[Buynomics](#), Cologne, Germany (*May 2022 – August 2023*), Full-time

- Led Storybook adoption, standardising reusable component development and testing while increasing development speed by 45%.
- Collaborated with product managers, designers and engineers to evaluate technical trade-offs, translating ambiguous requirements into maintainable solutions aligned with user and business needs.
- Optimised PostgreSQL database performance by introducing caching and indexing strategies to address slow complex queries, reducing response times by 30% and improving production application performance.

Senior Frontend Engineer

[OneUptime](#), Boston, United State (*January 2018 – April 2022*), Full-time

- Owned features from technical design through implementation, testing, deployment, and production support, ensuring reliable delivery throughout the software lifecycle.
- Designed and maintained CI/CD and cloud deployment workflows, enabling frequent, repeatable, and reliable releases to production.
- Worked iteratively in cross-functional teams, delivering software in small increments, incorporating feedback, and adapting technical approaches as requirements evolved.

PERSONAL PROJECTS

[BackpageFC](#), *TypeScript, Python, React, LangGraph, AWS, Ffmpeg, LLMs, ElevenLabs, Agentic AI, Generative AI (2025 – present)*

- Architected and built an AI-powered football media platform that researches football stories and transforms them into automated long-form articles and short-form video content, focusing on stories, context, and insights often overlooked by mainstream football media.
- Built an agentic AI video-generation workflow integrating LLM-driven research and script generation, image synthesis, ElevenLabs text-to-speech, and cloud-based video rendering to automate the production of football content from initial topic through to finished media.
- Scaled BackpageFC to 2,000+ users and 500,000+ content views across TikTok and YouTube, with blog articles averaging approximately 600–800 reads, through continuous product development, performance optimisation and production reliability improvements.