

# Damilola Michael Ige

Senior Software Engineer (Cloud, Prototyping, Interactive Web, Mobile)

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Portfolio: [idmcalculus.cv](https://idmcalculus.cv) | LinkedIn: [linkedin.com/in/idmcalculus](https://linkedin.com/in/idmcalculus) | GitHub: [github.com/idmcalculus](https://github.com/idmcalculus)

## PERSONAL PROFILE

I build systems that scale and survive real-world pressure. From fintech platforms processing cross-border payments to high-traffic products used by thousands, I focus on performance, security, clean architecture, and developer experience, building systems that teams can operate, extend, evolve, and scale confidently.

My work spans TypeScript/React/Vue/Angular frontends, Node.js and Java backends, Python and PHP services, cloud-native infrastructure on AWS/GCP, and production systems that embed AI and large language models as core architectural components.

## KEY SKILLS

- Core Languages & Frameworks:** TypeScript, JavaScript, React, Next.js, Node.js, Nest.js, Angular, Vue.js, Nuxt.js, Python (Flask/Django), PHP, Laravel, Java, Spring Boot.
- Frontend Expertise:** State management (Redux, React Query), Tailwind CSS, reusable components, testable UIs, Storybook, and architectural patterns (DDD, microservices).
- Backend Expertise:** REST, GraphQL, microservices architecture, OAuth2, JWT, Redis, CDN, background processing (Celery, BullMQ, AWS Lambda), database optimisation, error monitoring (Sentry).
- Databases & Cloud:** PostgreSQL, MySQL, MongoDB, ORMs, Hibernate, JPA, AWS (ECS, Lambda, SES), GCP, Pulumi, Terraform, CI/CD (Docker, GitHub Actions), Kubernetes.
- Testing & Security:** Jest, Cypress, RTL, Pytest, PHPUnit, JUnit, web security (SQLi/XSS mitigation, MFA, IAM).
- AI, Data & Other:** SQL, Power BI, ETL, Excel, Tableau, LangChain, Hugging Face, OpenAI API, Llamaindex, vector databases (FAISS, Pinecone), and prompt engineering for LLM-powered applications

## WORK HISTORY

### Trusted Transfers, Remote – Senior Software Engineer

OCT 2024 – PRESENT

- Optimised the React/TypeScript frontend with Redux for state management and lazy loading, resulting in reusable, testable components even under high load.
- Improved page speed by 45% by using code splitting, lazy loading, and caching, balancing performance gains with team feedback and user needs.
- Showed initiative and strong problem-solving skills by improving API response times by 95% by restructuring the database and offloading tasks to AWS Lambda.
- Cut setup time by 50% by using Pulumi to deploy the app to AWS (ECS Fargate, RDS, Lambda, VPCs, security groups, etc.), a result of clear and proper planning and cross-team coordination.
- Halved deployment times by rewriting GitHub Actions and Pulumi scripts to streamline CI/CD, demonstrating time management and attention to detail.
- Containerised and deployed backend workloads, implementing repeatable environments, rollout strategies, and production observability, an experience that transfers cleanly to GCP + Kubernetes (GKE) delivery patterns.
- Applied practical AI/LLM prompt engineering to accelerate engineering workflows (documentation, test/support automation, evaluation of outputs), improving speed and consistency without compromising quality.

### Aeeeee Inc., Remote – Software Engineer

SEP 2020 – SEP 2024

- Built and optimised real-time, high-traffic React/TypeScript applications (streaming updates, state management, caching, lazy loading) to keep UX smooth while scaling usage to 10k users in 5 months.

- Took early-stage ideas from “rough demo” to production-ready releases by shipping small, testable increments, iterating quickly from user feedback, and tightening performance/reliability with each release.
- Designed and deployed a serverless AWS Lambda and API Gateway architecture with OTP-based user verification, securing sensitive endpoints using least-privilege IAM roles and improving compliance.
- Implemented secure authentication and hardening (OAuth2/JWT, input sanitisation, XSS mitigation, IAM controls, security scans in pipelines), reducing risk while keeping developer velocity high.
- Improved the user experience of a Next.js app by optimising state, lazy loading, and memoisation.
- Designed CI/CD pipelines with CodePipeline and GitHub Actions, including security scans and IAM controls, demonstrating strong organisational and DevOps skills.
- Revamped legacy AngularJS admin panels by incrementally migrating them to React/TypeScript, preserving core business logic, reducing technical debt by 30%, and enhancing maintainability without disrupting user workflows.

#### **Versa Haven Resources Ltd – Senior Full Stack Developer**

MAR 2020 – JUL 2020

- Created PCI-DSS-compliant payment flows with Angular and D3.js for real-time metrics.
- Achieved 17% security enhancement by mitigating common web vulnerabilities (SQLi/XSS) in Angular/TS apps.
- Bugs were reduced by 30%, and onboarding was made faster thanks to code reviews.

#### **RCCG ICT UNIT – Full Stack Developer**

MAR 2018 – FEB 2020

- Decomposed monolithic systems into scalable Java/Spring Boot/Spring Cloud microservices, boosting transaction throughput by 40% via service orchestration and JPA/Hibernate optimisation.
- Migrated legacy WordPress, jQuery, and Bootstrap frontends to scalable React/TypeScript architecture, reducing technical debt by 30% and improving performance with component-driven design.
- Enforced enterprise-grade security on distributed systems using Spring Security, OAuth2, and JWT, ensuring role-based access control and protecting sensitive data.

#### **HNG Tech – Full Stack Engineer**

JUN 2017 – FEB 2018

- I created the LMS frontend using Oracle JET and Laravel, which included an engaging emoji blog that increased user engagement by 25%.
- Optimised API data flow and implemented real-time WebSocket notification, cutting latency by 40%.
- Built an automated Slack bot (AWS Lambda, DynamoDB) that reduced HR workload by 40% with 100% uptime.

## **EDUCATION**

#### **University of Ibadan, Nigeria – MSc in Petroleum Engineering**

JAN 2013 – FEB 2015

#### **University of Ibadan, Nigeria – BSc in Petroleum Engineering**

JUN 2005 – OCT 2010

## **TRAINING and CERTIFICATIONS**

- **Aim2Learn, UK** – Pearson BTEC Level 3 Diploma in Professional Competence for IT and Telecoms Professionals. NOV 2025
- **Udemy, Online** – LLM Engineering: Master AI, Large Language Models & Agents SEP 2025
- **Forage (J.P. Morgan Chase & Co)** – Software Engineering Job Simulation MAY 2025
- **Codecademy, Online** – How to Implement Search Algorithms with Python APR 2022
- **WQU, Remote** - Applied Data Science I: Scientific Computing & Python MAR 2021
- **OpenClassrooms, Online** – Go Full Stack with Node, Express, and MongoDB DEC 2019
- **OpenClassrooms, Online** – Build web apps with React NOV 2019
- **OpenClassrooms, Online** – Secure Your Web Application with OWASP NOV 2019
- **OpenClassrooms, Online** – Learn the Command Line in Terminal SEP 2019