

OLAKUNLE IRANTIOLA

Full-Stack Software Engineer

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PROFESSIONAL PROFILE

Software engineer with over eight years of experience building production systems across fintech, social platforms, insurance technology, and marketplace products. Strong backend focus with expertise spanning the Node.js/TypeScript and Java/Spring ecosystems, complemented by hands-on experience in frontend development, mobile engineering, and cloud infrastructure. Has led engineering teams, driven major architectural decisions, and shipped systems serving real users in high-concurrency, high-stakes environments. Currently serving as Head of Engineering at VillageSquare, with a consistent record of building reliable, scalable systems across Nigeria's technology sector. Returning to formal academic study to deepen expertise in artificial intelligence, cloud computing, and advanced software engineering.

EDUCATION

Bachelor of Technology — Pure and Applied Physics

Ladoke Akintola University of Technology, Ogbomosho, Nigeria

September 2014 – June 2021

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, PHP, Java, Kotlin

Frontend: HTML5, CSS3, Bootstrap, jQuery, Vue.js, Nuxt.js, Vue Native, Electron.js

Backend Frameworks: Node.js, Express.js, Fastify.js, Nest.js, Laravel, Spring Boot, Spring MVC, Spring Cloud

Mobile: Native Android (Java, Kotlin)

Databases: PostgreSQL, MySQL, MongoDB, Redis, Firebase, SQLite, Elasticsearch

Messaging & Streaming: Apache Kafka, AWS SQS, RabbitMQ, WebSocket

Cloud & Infrastructure: AWS (EC2, ECS, EKS, Lambda, RDS, S3, CloudFront), Docker, Kubernetes, Terraform, Nginx, Digital Ocean, Microsoft Azure, Google Cloud

Architecture: Microservices, Event-Driven Architecture, CQRS, Domain-Driven Design, REST APIs, Real-time Systems, Financial Ledger Systems

Testing & Quality: Jest, JUnit, Mockito, Cypress, Apache JMeter, SonarQube

Monitoring & Logging: ELK Stack, AWS CloudWatch, Prometheus, Grafana, OpenTelemetry

CI/CD & Version Control: Git, GitHub, GitLab, Bitbucket, Jenkins

Other Tools: Spring Security, Spring Data JPA, Hibernate, Flyway, OpenAPI/Swagger, Docker Compose, TensorFlow.js

PROFESSIONAL EXPERIENCE

Head of Engineering & Product Manager

The VillageSquare — Lagos, Nigeria / Remote

Apr 2024 – Present

- Lead a cross-functional team of 8 engineers and designers, overseeing technical decision-making, product delivery, and engineering standards across a multifaceted digital community platform.
- Converted the platform's API layer from a monolithic Laravel system to a scalable microservices architecture using Nest.js, reducing production incidents by 55% and enabling teams to ship features independently.
- Redesigned the media infrastructure from the ground up, eliminating rendering failures and cutting media load times by over 60%.
- Built a platform-wide real-time interaction layer powering live notifications, activity feeds, and messaging, reducing delivery latency from 400ms to under 90ms at peak concurrency.
- Implemented an asynchronous job processing system using AWS SQS, offloading media encoding, notifications, and analytics from the core request path, improving API response times by 45%.
- Integrated a live streaming server using Ant Media Server, enabling audio/video calls and live broadcasts natively within the platform.
- Migrated the entire database architecture from MySQL to PostgreSQL and introduced Redis caching, significantly improving query performance and system reliability.
- Designed an intelligent content personalisation engine that increased average user session duration by 38%.

Software Engineer

KoinSave, Nigeria / Remote

Feb 2026 – Jul 2026

- Contributed to the core financial ledger underpinning Naira-to-USD conversions on the platform, helping ensure transactions remained atomic, fully traceable, and reconcilable.
- Worked on currency conversion and settlement pipelines, helping the team achieve p99 latency under 200ms with zero data loss during the engagement.
- Implemented concurrency control improvements across simultaneous wallet operations to reduce race conditions and prevent double-spend issues.
- Optimised the data access layer for the transaction history service, reducing query response time from 420ms to 95ms under peak load.
- Built an asynchronous savings processing system, reducing end-to-end savings execution time from 4 minutes to under 40 seconds.
- Introduced a compliance-ready audit trail logging every transaction state change for regulatory traceability.

Software Engineer

Jun 2025 – Present

Smartapproaches (GYWDE), Remote

- Designed a vendor discovery and matching engine connecting consumers with relevant service providers in under 300ms, factoring in location, skill set, availability, and reputation score simultaneously.
- Restructured the platform's domain architecture to separate consumer, vendor, and admin concerns into independently scalable services, eliminating cascading deployment failures.
- Drove a database performance initiative that reduced slow-query incidents by 70% during peak activity through schema redesign, index optimisation, and targeted caching.

Senior Fullstack Engineer

Jul 2021 – Mar 2023

MyCoverGenius (MyCover.ai), Lagos, Nigeria

- Built 7 interrelated insurance sales and management platforms, including dashboards for admins, insurers, agents, SMEs, and end users.
- Developed an AI-assisted vehicle inspection feature using TensorFlow.js, significantly reducing insurance purchase time and eliminating the cost of sending agents out for physical inspections.
- Ensured PCI-compliant handling of sensitive payment data, with end-to-end encryption and fraud prevention mechanisms built into every checkout flow.
- Led a team of 3 engineers, serving simultaneously as technical lead, QA engineer, and frontend developer.

FREELANCE & CONSULTING PROJECTS

Freelance Software Developer

Jan 2022 – Apr 2024

Freelancer.com & CodeMentor.io — Remote

- Delivered software solutions for international clients across multiple industries via Freelancer.com and CodeMentor.io, spanning backend development, API design and integration, and database and performance optimisation.
- Debugged and stabilised existing production codebases under tight turnaround, routinely onboarding onto unfamiliar systems and isolating root causes without prior context or documentation.
- Worked directly with clients to scope requirements, translating non-technical briefs into deliverable technical specifications and realistic timelines.
- Adapted across a wide range of technology stacks and problem domains, broadening practical engineering capability while maintaining concurrent full-time engagements.

Software Engineer / Checkout Plugins Expert

2020 – 2021

Bread Finance, New York, USA / Remote

- Extended the existing product with multi-account payment support and optimised payment gateway plugins, reducing transaction times and improving the overall checkout experience.
- Implemented an advanced fraud detection system using the iovation API and introduced a COVID-19 hardship programme to support customers in accessing loan facilities.
- Improved product speed by enhancing Redis caching across the codebase and implementing permission-based access controls on merchant API routes.

Backend Engineer

2019 – 2023

Various Clients

- Developed a hotel booking web application (Laravel, PostgreSQL, AWS EC2, Docker, Kubernetes).
- Upgraded an Express.js-based email marketplace platform as part of a backend team (Express.js, Nest.js, MongoDB, GitLab).

- Added multi-language support and integrated PayTM payment gateway into an Indian ride-hailing Android application.
- Delivered maintenance and feature development across various Laravel projects for international clients.

Software Engineer

2019 – 2021

Clartt Technology Limited, Lagos, Nigeria

- Built a native Android application for business transactions, including QR scan and auto balance-hide features for faster, more private usage.
- Developed backend services and admin tooling to support open-house listings, transaction metrics, and automated payment processing.

Software Engineer

2019 – 2021

ITH, Lagos, Nigeria

- Maintained and improved existing software products, resolved complex technical issues, and contributed to root cause analysis and system performance improvements.

Software Engineer

2019 – 2020

User Interviews, New York, USA / Remote

- Led codebase stabilisation efforts and introduced an Elasticsearch-powered participant search system for more accurate and efficient research matching.
- Built a criteria-based grading system to match participants with relevant research studies, with automated email notifications for matched candidates.
- Improved application performance by migrating several heavy operations to background jobs.

Software Engineer (Tech Lead)

2018 – 2020

Soole Ride, Lagos, Nigeria

- Designed and built the ride-sharing application and its RESTful API backend, and managed continuous integration and deployment pipelines.

Software Engineer

2018 – 2020

Luziko, Nigeria

- Developed all API endpoints, managed CI/CD pipelines, and collaborated with the frontend team on interface design.

Lead Web Developer

2016 – 2018

FEMADE System Solutions, Lagos, Nigeria

- Designed and developed a comprehensive school management system to digitalise student, staff, and parent records, attendance tracking, and result compilation for schools across Nigeria.

Software Engineer

2016 – 2018

Zabira, Remote

- Contributed to the design and build of a high-throughput trading and wallet system, gaining early exposure to financial infrastructure, transaction integrity, and idempotency in a live system.
- Integrated third-party crypto custody and fiat payment provider APIs, implemented social sign-in flows that reduced registration drop-off, and built Android wallet screens including biometric authentication.

REFERENCES

Available on request.