

OLADAPO ADEOLA OMONAYAJO

Software Engineer | Distributed Systems | AI-Native Systems & Applied AI Engineering

Doha, Qatar

PROFESSIONAL PROFILE

Accomplished Staff-level Software Engineer and Architect with over 15 years of full-stack engineering experience scaling distributed systems, multi-tier enterprise platforms and AI-native workflows. Proven track record of designing high-throughput backend services, managing multi-cloud infrastructure (AWS, GCP), and leading high-performing cross-functional teams across scale-ups, multiple industries and government-scale initiatives.

CORE TECHNICAL SKILLS

- Languages & Core Runtimes: Golang, TypeScript, Javascript, Node.js, Python, PHP, Dart, C#
- AI Orchestration & Applied AI: LLM Application Integration (AWS Bedrock, Vertex AI, Cloudflare AI Gateway, Anthropic, Deepseek), Prompt tuning and engineering.
- Distributed Systems & Backend: RESTful Web Services, GraphQL API, gRPC services, Microservice Architecture, Event-Driven Architecture.
- Data Engineering & Storage: PostgreSQL, MySQL, Redis, MongoDB, Elasticsearch.
- Frontend & Mobile Engineering: React, Remix, Angular, Flutter SDK (iOS/Android).
- Cloud & DevOps Infrastructure: Infrastructure as Code (Pulumi, Terraform), Docker, Kubernetes, Multi-Cloud Management (AWS, GCP, DigitalOcean), CI/CD Pipelines (GitHub Actions & Workflows)
- Observability & Operations: Grafana Stack (Prometheus, Loki), ELK Stack (Elastic, Logstash, Kibana) Newrelic

PROFESSIONAL EXPERIENCE

Hygraph: Senior Full-Stack Engineer (July 2023 - Present)

- Architectural Leadership: Engineered end-to-end design, automated testing pipelines, and deployment strategy for core enterprise platform systems, including Content Workflows and Taxonomy Management solutions.
- Performance & Onboarding Optimization: Led architectural initiatives that streamlined and improved user onboarding velocity by up to 96%, accelerating environment deployment times

down to an average of 1.5 seconds.

- AI Integration: Designed and implemented cutting-edge AI orchestration layers, embedding LLMs into core content delivery pipelines, and helping enterprise customers define institutional guardrails and contexts for Hygraph Agents.
- Infrastructure & Reliability: Direct cloud environment backup systems, database synchronization, and seamless environment cloning services utilizing GoLang and TypeScript microservices.
- Technologies Used: GoLang, TypeScript, Remix, React, Node.js, GraphQL, PostgreSQL, Docker, Temporal.io, AWS Services, Newrelic.

Archax: Senior Software Engineer / Deputy Team Lead *(June 2020 - April 2023)*

- Regulated Financial Engine Integration: Integrated a real-time, ultra-low-latency order-matching engine into a desktop-based trading application on a regulated Digital Assets Trading Platform, ensuring atomic transactional consistency.
- Strategic Technical Advisory: Partnered with the CTO and Head of Product to evaluate the technology landscape, leading the rapid execution of proof-of-concepts (POCs), and establishing future-state technical roadmaps.
- Engineering Leadership & Hiring: Directed sprint ceremonies; set code-review standards for the team, and conducted technical interviews to evaluate system design competency.
- Technologies Used: TypeScript, JavaScript, React, Node.js, C++, MySQL, Redis, ZeroMQ, Docker, AWS Services.

Softcom Limited: Engineering Manager & Lead Developer *(November 2015 - January 2017 | June 2022 - January 2023)*

- Engineering Leadership & Product Delivery: Managed and mentored an engineering organisation of 14+ software developers delivering an omnichannel merchant payments and sales management platform.
- Process Engineering: Recommended and led efforts to standardise CI/CD pipelines and automated testing frameworks, cutting deployment regression errors and improving release velocity.
- Government-Scale Distributed Architecture: Helped design, build and deliver multi-tier mobile and web platforms supporting the Federal Government of Nigeria's NPower Initiative, processing user identity registrations and real-time content delivery workloads.
- Technologies Used: GoLang, TypeScript, React, Angular, Node.js, PHP, MongoDB, AWS Services, Docker, Kubernetes, ELK Stack.

International Software Engineering Consultant (Singapore, Malaysia, France) (July 2019 - June 2020)

- Enterprise Data Synchronisation (Singapore): Designed resilient ETL pipeline layers for a multinational HR enterprise to establish real-time data consistency between cloud platforms and legacy on-premise MSSQL engines.
- Logistics Platform Architecture (Malaysia): Led technical design, component mapping, and API routing schemas for a complex B2B logistics infrastructure.
- Technologies Used: PHP, Laravel, Angular, Node.js, MSSQL, MySQL, Docker, Kubernetes, ELK, Grafana Stack

Lazada Group (Alibaba): Senior Technology Development Manager (Finance & Operations) (Feb 2017 - Jan 2019)

- Financial Automation Pipeline: Operated as the primary data resource for the Corporate Finance Unit; built automated aggregation pipelines processing data pertaining to the monthly 2+ million items shipped (and delivered) in a bid to streamline month-end executive reports.
- Process Automation: Led fulfillment chain automation projects, third-party logistics API integrations, and development of Cash-on-Delivery financial remittance engines, resulting in extensive operational cost savings.
- Cloud Infrastructure: Managed AliCloud provisioning, clustering, and monitoring frameworks for regional operations.
- Technologies Used: Typescript, Javascript, Angular, Node.js, PHP, Laravel, Python, Docker, Postgres, Redis, Docker, AliCloud

LawPavilion Business Solutions: Senior Software Developer (March 2013 – November 2015)

- Financial Reconciliation: Engineered a secure Revenue Collection and Reconciliation engine deployed across 10+ higher education institutions to validate and audit electronic government-mandated cashless transactions.
- Core Legal Tech Analytics: Led the engineering team behind Africa's premier Legal Analytics AI platform (LawPavilion PRIME) and court process management systems adopted by provincial High Courts.
- Legal Automation Tech: Led the software architecture of LawPavilion CaseManager and Solicitors' Toolkit, the internal CRM used by sales, marketing and customer service reps.
- Technologies Used: PHP, Yii, Javascript, Angular, React, Node.js, MySQL, Objective-C, ActionScript, Java

Early Career Roles - (ABI Consult, DreamLabs Nigeria, Ciphernet Technologies Limited):

(April 2010 - March 2013)

- Engineered desktop/web applications, school management platforms, and payroll processing software using PHP, C#.NET, and MySQL

EDUCATION & CREDENTIALS

- Master of Business Administration (MBA) | University of East London, 2025
 - Thesis: “The Role of Digital Payment Systems in Enhancing Financial Inclusion in Nigeria”
- B.Sc. (First Class Hons) in Information and Communications Technology | Crawford University, 2011
 - Award: Best Graduating Student in Computer and Mathematical Sciences
 - Thesis: “Design and Development of a Web-based Learning Management System”
- Certifications & Training:
 - Microsoft Certified Professional (MCP) & MCDST
 - Google Cloud Platform Fundamentals: Core Infrastructure (2019)
 - Advanced iOS Application Architecture Training (Koenig Solutions, Bangalore, India)