

Emmanuel (Layo) Folaranmi

mannie.folaranmi@gmail.com | linkedin.com/in/layo-folaranmi | UTC+1 Timezone

PROFESSIONAL SUMMARY

Senior Software Engineer and Technical Lead with 9+ years of experience architecting high-throughput backend systems, event-driven microservices, and cloud-native infrastructure. Proven track record owning production systems, leading technical delivery across distributed teams, and establishing engineering standards. Deep expertise across Node.js, NestJS, TypeScript, Python, and scalable database design, with a focus on API performance, system resilience, and modern AI-assisted development workflows.

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript (ES6+), Python (FastAPI, SQLAlchemy), SQL, HTML5, CSS/SASS
- **Backend & Microservices:** Node.js, NestJS, Express, REST APIs, Microservices Architecture, Event-Driven Systems, GCP Pub/Sub, WebSockets
- **Databases & Storage:** PostgreSQL, MongoDB, Redis, BigQuery, MySQL
- **Cloud, DevOps & Containers:** Google Cloud Platform (GCP), Google Kubernetes Engine (GKE), Docker, CI/CD Pipelines, NGINX, Git
- **AI & Developer Tooling:** Claude Code & Agentic Workflows, AI-assisted development, Test Automation (Jest/Cypress)

WORK EXPERIENCE

Arrivia — Senior Software Developer

Aug 2024 – Present (Consultant: Apr 2024 – Jul 2024)

- Architected serverless and event-driven data pipelines using GCP Cloud Functions, Pub/Sub, and BigQuery to process real-time user events across Fortune 500 partner ecosystems.
- Designed and deployed a custom client-side rendering framework from scratch, eliminating legacy dependencies and significantly reducing bundle sizes across partner brand ecosystems (T-Mobile, USAA, Marriott).
- Standardized frontend architecture across partner integrations by deploying a reusable custom widget library with clean, extensible APIs.

Colgate-Palmolive — Senior Software Engineer

Jul 2023 – Aug 2024

- Spearheaded engineering on a Node.js/Nuxt headless Shopify store, owning technical decisions across API integrations, component architecture, and rendering performance.
- Built an in-house CMS component library using Vue/Nuxt and Directus, achieving a 30% reduction in content editing cycles for non-technical stakeholders.
- Implemented Shopify checkout UI extensions and integrated third-party shipping carrier services for Hill's Pet Nutrition, optimizing checkout flows and load performance.
- Refactored legacy store architecture to eliminate client-side rendering bottlenecks, driving a 15% acceleration in initial page load speed.

BCG GAMMA — Senior Product Engineer

Feb 2022 – Mar 2023

- Engineered high-performance REST API endpoints and backend microservices using Python, FastAPI, and SQLAlchemy to support enterprise predictive analytics tools.
- Led frontend development and state management architecture (Angular, NgRx, RxJS), delivering interactive data visualization dashboards (D3.js, Vega-Lite) for executive decision-making.
- Improved data-fetching efficiency and frontend state reactivity, achieving a 10% speed improvement in data display for a global airline client platform.

Secure Staffing LLC — Full-Stack Developer

Nov 2020 – Sep 2021

- Engineered real-time, low-latency messaging infrastructure utilizing Node.js, WebSockets, and Redis to process multi-channel communication queues.
- Provisioned dedicated Redis servers and executed zero-downtime data migration scripts to handle chat data growth and maintain system replication.

- Built compliance processing queues and internal administrative tools handling multi-criteria file verification and user linking workflows.

FOUNDER EXPERIENCE

THDCTech — Founder & CTO (Side Venture)

2021 – 2024

- Founded and shipped THDC Checkout Builder (Shopify App Store SaaS), building a custom browser DOM editor that serializes drag-and-drop actions into valid Shopify Checkout Extensibility configurations.
- Architected production microservices using NestJS, TypeScript, and PostgreSQL, containerizing applications with Docker and setting up automated CI/CD pipelines.
- Engineered metadata retrieval and search indexing pipelines using MongoDB and PostgreSQL to enable fast contextual lookups across unstructured datasets.
- Integrated Claude Code and AI-assisted workflows into daily development practices to accelerate API contract generation, refactoring, and test suite creation.
- Mentored junior and mid-level developers through daily pair programming, detailed code reviews, and architectural decision records (ADRs).

ADDITIONAL EXPERIENCE

- Fresh Interactive — Full Stack Developer (Aug 2020 – Oct 2020): Developed responsive web applications using Vue.js, Laravel, Salesforce, and Iterable API integrations.
- Simbi Interactives — Full Stack Developer (Nov 2018 – Jun 2020): Built and optimized EdTech web applications using Vue.js, PHP, and AWS infrastructure.
- Brimatel Global Network — Junior Web Developer (Jun 2016 – Jul 2018): Built REST APIs and custom web applications.

PUBLICATIONS & EDUCATION

- BSc (Hons) Information Technology (First Class Honours) — Middlesex University (2020)
- Advanced Diploma in Software Engineering (Distinction) — Aptech Computer Education (2019)