

Tobiloba Odejinmi

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PROFESSIONAL SUMMARY

Senior Backend & AI Systems Engineer with 12+ years building high-throughput APIs, event-driven microservices, and production LLM-integrated pipelines. Hands-on experience designing structured-output validation for LLM APIs, reducing manual verification workloads by 50%, alongside deep backend expertise in TypeScript, Node.js, Fastify, and PostgreSQL at scale across fintech and healthtech.

CORE COMPETENCIES

AI / LLM Systems: LLM API integration, RAG, Zod/TypeScript structured output validation, AI data validation pipelines, Mastra AI, Livekit, Gemini, ChatGPT, Claude, Grok.

Backend & Distributed Systems: Node.js, NestJS, Fastify, Python, FastAPI, event-driven microservices, high-throughput APIs, background job systems

Data Infrastructure: PostgreSQL, MySQL, MS SQL, Redis, Kafka, Elasticsearch, schema design, migration governance, parity validation

Cloud & DevOps: AWS, Docker, CI/CD automation

Testing & Tools: Playwright, Unit & Integration Testing, Jira

EXPERIENCE

Senior Full-Stack Engineer (Strategic Advisory Contract), SmartComply — United States

Jun 2025 – Nov 2025

- Designed complex AI data validation pipelines utilising LLM APIs with Zod/TypeScript structured output validation, preventing non-deterministic data pollution and reducing manual verification workloads by 50%.
- Led migration of legacy business logic to modern architecture, ensuring strict parity and validation of complex data flows.
- Built secure API systems and automation workflows supporting multi-market expansion across the US and Africa.
- Improved threat-response efficiency by 45% through proactive technical challenge solving.

Head of Engineering, 10mg Health — United Kingdom

July 2024 – Present

- Architected a highly resilient, multi-tenant TypeScript/Node.js healthtech platform from 0 to production, empowering 6,000+ providers with core event-driven microservices.
- Formulated and executed financial product strategies that disbursed over \$3.4M in platform loans, optimising automated workflows to a 60% approval rate while maintaining rigorous data integrity.
- Implemented core analytics pipelines to drive product roadmap decisions based on real-time user engagement metrics.
- Exercised technical leadership through rigorous code reviews, mentoring junior engineers, and systematically unblocking development bottlenecks to maintain high velocity.

Head of Engineering, Zeeh Africa — Delaware, USA

Feb 2023 – July 2024

- Led a team of 8 engineers to scale platform adoption by 890% in 9 months through robust code quality standards and technical mentorship.
- Architected distributed open-banking and KYC API gateways used by 390+ companies, enabling third-party platform integration in under 24 hours.
- Integrated high-performance direct debit infrastructure capable of initiating secure payment mandates in under 5 minutes.
- Built data-driven validation workflows that kept the platform's non-performing loan (NPL) ratio strictly under 5%.
- Led the migration of complex architectures from legacy .NET environments to modern TypeScript and Fastify stacks.

Senior Full-Stack Engineer (Strategic Advisory Contract), Revwit — Lagos, Nigeria

Aug 2024 – Apr 2025

- Developed a modern production CRM using Next.js, React, Node.js, and Prisma.

- Architected multi-tenant systems and database migration workflows to ensure high-performance scalability.
- Reduced deployment cycles by 70% and improved platform performance by 60% through automation and performance tuning.

Co-Founder / CTO, Insurpass Technologies Inc. — Delaware, USA

Aug 2021 – Jan 2023

- Scaled a multi-tenant SaaS platform used by 100+ companies, integrating APIs with major insurance providers.
- Managed a 17-person engineering team, overseeing product development and large-scale infrastructure.
- Improved client satisfaction by 80% through customizable dashboards and product configuration tools.
- Spearheaded complex platform migrations, translating legacy MS SQL-based business logic into high-performance TypeScript/Node.js services with rigorous parity validation.

Backend Engineer, Coral Stone Capital Ltd — Lagos, Nigeria

Jan 2018 – July 2020

- Architected repayment systems handling ₦2B+ monthly volume, focusing on platform reliability and precision.
- Reduced cloud infrastructure costs by 50% while improving database performance by 45%.

EARLIER CAREER

Co-Founder / CTO, Shopl (Techstars '22) (Apr 2022 – Nov 2022) — Led a team of 9 engineers to build a universal card solution for integrated e-commerce, acquiring 1,000 users within the first month of launch.

Engineering Team Lead, Kwaba International (Jun 2020 – Dec 2021) — Designed credit evaluation workflows and scalable loan approval systems that supported the acquisition of 164,000+ users.

Freelance Software Engineer, Fiverr (Jan 2013 – Dec 2017) — Delivered 270+ full-stack applications across fintech, e-commerce, and SaaS sectors with a 4.9/5 star rating.

AWARDS

2 Successful Startup Exits — Insurpass & Shopl

Recognised for delivering high-value exits as Co-Founder/CTO through strategic technical leadership. 2023

EDUCATION

NCE. Computer Science — University of Ilesa, Ilesa.

Jan 2014 – Dec 2017

B.Sc. Computer Science — National Open University of Nigeria, Lagos

Jan 2019 – Dec 2022

Mini-MBA, Business Management — Tekedia Institute, Boston, USA

Sep 2021 – Dec 2021