JOEL AJIDE ADEMOLA

Senior Fullstack Engineer | Distributed Systems | Fintech Infrastructure

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Lagos, Nigeria

PROFESSIONAL SUMMARY

Fullstack engineer who builds payment systems that process millions — and sleeps soundly because they don't break. **8+ years** architecting high-throughput fintech infrastructure. Built crypto on-ramps processing **$100k+ monthly volume** across 15 countries. Currently running payment systems handling **3-5k daily transactions** with **99.9%+ uptime**. Published open-source packages used across production services.

EXPERIENCE

Senior Backend Engineer (Lead Architect)

Jul 2025 – Present

Peniremit | Remote • Crypto-powered bill payments & remittance platform

Built entire payment backbone from scratch — processing thousands of transactions daily with near-zero incidents.

- **Architected 7 core microservices** (wallet, payments, notifications, scheduling, uploads) — 3-5k daily txns, <0.1% support tickets
- **Slashed inter-service latency 40%** migrating REST → gRPC with certificate-based auth
- **Cut message failures 90%** consolidating BullMQ + Redis Streams into production-grade RabbitMQ
- **Reduced query latency 60%** on ledger operations by migrating to TimescaleDB
- **Published cross-language SDKs** (NPM + PyPI) for proto definitions and gRPC certs — used across 5+ services
- **Built Upload Service in Go** handling 3k+ daily uploads with pre-signed S3 URLs — zero credential exposure

Stack: Node.js, TypeScript, Fastify, FastAPI, gRPC, RabbitMQ, PostgreSQL, TimescaleDB, Go, AWS S3, Docker

CTO & Co-Founder

Jan 2021 – Jan 2025

Scalex Technologies | Lagos • Global crypto on/off-ramp infrastructure

Built crypto infrastructure company from zero to $100k+ monthly volume, serving partners across 15 countries.

- **Established engineering foundation** for on/off-ramp platform — partnered with EspressoCash, Gamic, Fonbnk, AlchemyPay
- **Designed modular payments backend** handling remittances, settlements, compliance, and identity flows at scale
- **Architected blockchain integrations** (Solana, Ethereum, stablecoins) enabling low-fee cross-border transactions
- **Created plug-and-play B2B2C SDK** — reduced partner integration time from 4 weeks to 3 days
- **Implemented gasless meta-transactions** — reduced user onboarding drop-off by 35%
- **Led team of 4 engineers** — established standards for multi-service infrastructure

Stack: Node.js, TypeScript, NestJS, MongoDB, Redis, RabbitMQ, Web3.js, Ethers.js, Solana, Solidity, Rust, AWS

Senior Backend Engineer

Oct 2024 – Jun 2025

Emple (Canalis Technologies) | Remote (Contract) • Life & General Insurance Platform

- **Built 6 core microservices** — Underwriting, Claims, Quotation, Payments, Communication, Developer APIs

- **Reduced payment integration time 85%** (2 weeks → 2 days) with provider-agnostic module (Paystack, 9jaPay)
- **Achieved 99.5% message delivery rate** using event-driven architecture with RabbitMQ

Stack: Node.js, TypeScript, PostgreSQL, Knex, RabbitMQ, Sentry, Azure

Software Engineer

Mar 2024 – Oct 2024

CBIT Industries | Remote (Contract) • E-Commerce & Logistics Control Tower

- **Engineered Control Tower System** — real-time order monitoring, SLA tracking, automated alerts — cut escalation response time 50%
- **Built Admin dashboard frontend** with React + Vite — multi-tenant data sync across Customer, Merchant, and Admin portals
- **Developed promotions engine** supporting percentage, flat, conditional, multi-tier rules — increased checkout conversion 15%

Stack: React, Vite, Node.js, TypeScript, Express, PostgreSQL, Prisma, Redis, RabbitMQ, AWS S3

PROJECTS & OPEN SOURCE

Seedwise — *Smart Database Seeding Library* | npmjs.com/org/seedwise | github.com/vanjoe667/seedwise

Published @seedwise/core and @seedwise/knex — tracks which seeds have run (like migrations) so they don't re-execute. Solves duplicate seed data problem in development environments.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, Go, Rust, Solidity
Backend	Node.js, Fastify, Express, NestJS, FastAPI
Frontend	React, Vite, Next.js, Tailwind CSS
Databases	PostgreSQL, MongoDB, TimescaleDB, Redis, MySQL
Messaging	RabbitMQ, BullMQ, Redis Streams
Infrastructure	AWS (EC2, S3, Lambda, RDS), Docker, Kubernetes, CI/CD
Protocols	gRPC, REST, WebSockets, Protocol Buffers
Blockchain	Ethereum, Solana, Web3.js, Ethers.js, Hardhat

EDUCATION

Bachelor of Science, Computer Science — University of Ibadan 2019

WHAT SETS ME APART

Production mindset — I architect for failure modes, not just happy paths. Every system I build has monitoring, alerting, and graceful degradation baked in from day one.

Full-stack ownership — From database schema to deployment pipeline to frontend polish, I own the entire lifecycle. I've built companies from scratch; I treat every codebase like it's mine.

Cross-functional fluency — I translate between product, design, and ops without a translator. Complex technical decisions become clear business outcomes that stakeholders understand.