

AYOMIKUN ARAOYE

Software Engineer

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PROFILE SUMMARY

Software Engineer with 5+ years building high-performance, scalable applications across fintech, SaaS, Web3, networking, and mobility sectors. Proficient across a broad and ever-expanding language stack, including TypeScript, Go, Python, C#, and Rust, with deep expertise in full-stack web development, backend API design, distributed systems, and network engineering. Open-source contributor with a fast-learner mindset, consistently picking up new technologies to deliver the right solution. Proven track record of mentoring teams, shaping architecture decisions, and shipping production-grade features at speed.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Go, C#, SQL, Solidity, Bash/Shell

Frontend: React, Next.js, Tailwind CSS, SCSS, Shadcn/UI, React Query, Zustand, Redux, React Hook Form, Zod, Framer Motion

Backend & APIs: Node.js, NestJS, Express.js, Fastify, FastAPI, REST, GraphQL, tRPC, WebSockets, gRPC, Prisma, Drizzle, TypeORM

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

Infrastructure & DevOps: Docker, Kubernetes, AWS (EC2, S3, Lambda, RDS), GitHub Actions, CI/CD, Nginx, Linux, Terraform, Microservices

Networking: Network design & deployment, switches, routers, firewalls, VLANs, VPN, network monitoring

Web3: Solidity, Ethers.js, Viem, Wagmi, ERC-20/ERC-721, Account Abstraction, IPFS, zk-Rollups

Testing & Tooling: Jest, Vitest, Playwright, Cypress, TDD, Storybook, Turborepo, pnpm, Vite, OpenAPI/Swagger

CORE COMPETENCIES

Leadership & mentorship, fast adoption of new stacks, analytical problem-solving under pressure, clear **communication** with non-technical stakeholders, and end-to-end **ownership** from architecture to deployment.

WORK EXPERIENCE

Bloomgram

Backend & System Engineer · Full-time · Remote

- Building backend systems and infrastructure for a fintech startup in the currency exchange and automated trading space, architecting scalable services aimed at powering thousands of active users.
- Designing and implementing secure, high-throughput APIs to support real-time currency swap operations, live market data ingestion, and automated trade execution.
- Contributing to core system architecture decisions including data layer design, service reliability, and security protocols across a multi-currency financial platform.

HiCar

Backend Engineer · Full-time · Remote

- Built and scaled core backend services for a production ride-hailing platform in collaboration with a distributed engineering team.
- Improved system performance and reliability by optimizing business logic and refactoring critical code paths.
- Implemented a robust first-ride experience flow to ensure smooth user onboarding.
- Led integrations with third-party payment and verification providers.
- Reworked inefficient database queries to reduce latency and prevent scalability bottlenecks.

Confidential — NDA Protected

Web3 Engineer · Full-time · Remote

- Contributed to a confidential blockchain initiative under strict NDA, designing and deploying smart contracts (ERC-20, ERC-721, custom protocols) with a focus on scalability and security.
- Integrated decentralised storage systems (IPFS, Arweave) for verifiable and immutable data management.
- Worked on Layer-2 solutions (zk-rollups, optimistic rollups) to enable faster and cheaper transactions.
- Built middleware services bridging frontend dApps with blockchain backends; collaborated on tokenomics models, staking mechanisms, and DAO governance structures.
- Enhanced wallet integration (MetaMask, WalletConnect) and contributed to security reviews and cross-functional architecture discussions.

Evoolv

Full-Stack Developer · Full-time · Remote

- Building a full-stack e-commerce platform for electric vehicles, spanning vehicle listings, catalog browsing, and the end-to-end purchase experience.
- Developing core storefront and backend services, including product and listing management, cart and checkout flows, and order processing.
- Designing the data models and APIs that power the marketplace, with a focus on a clean, scalable architecture as the product moves toward launch.

Nigeria Police Academy (POLAC)

Network Engineer · Full-time · On-site

- Designed and deployed the academy-wide Wi-Fi system, providing free internet access to cadets and staff in partnership with Airtel Nigeria and Huawei.
- Configured and maintained switches, routers, and access points; implemented firewalls, VLANs, and access controls to secure the network.
- Set up monitoring tools to track network performance, uptime, and bandwidth usage; optimised scalability to support growing user demands.
- Developed network documentation and trained staff on usage and security best practices.

Software Engineer · Full-time · On-site

- Managed and supervised the cadet entrance examination process for Regular Course 11 using a CBT (Computer-Based Testing) system.
- Implemented real-time result generation, allowing cadets to view scores immediately after submission.
- Oversaw technical operations during exams to ensure system reliability, fairness, and integrity.

Hotels.ng

Full-Stack Developer · Full-time · Remote

- Architected and maintained a responsive hotel booking platform serving 7,000+ properties across 320+ Nigerian cities.
- Built and optimised the search and filtering experience across a large hotel catalogue.
- Integrated multiple payment gateways to handle bookings and transactions across the platform.
- Mentored 3 junior developers and introduced code review practices that improved code quality and consistency.

HNG Tech

Mentor · Volunteer · Remote

- Mentored upcoming interns through real-world software engineering challenges, providing code reviews, technical support, and career guidance.
- Helped shape programme curriculum and project workflows for the HNG Internship cohort.

Web Developer · Volunteer · Remote

- Built a scalable design system for consistency and efficiency; developed a complex rich-text editor using ProseMirror and Slate.
- Integrated APIs with the backend team and contributed to frontend development across multiple projects, ensuring scalability and performance.

Intern, 3x Finalist · Volunteer · Remote

- Completed multiple cohorts of the HNG Internship, reaching finalist stage three times across team-based projects simulating real-world engineering environments.

iTranscript.ng

Full-Stack Developer · Full-time · Remote

- Developed a document transcription platform with React and TypeScript, handling 100+ documents per day.
- Built an ML-assisted parsing system in Node.js that automated much of the manual data-entry workflow.
- Designed and optimised PostgreSQL schemas and queries for the platform's core user and document data.
- Worked within a team of 8, using pair programming and testing practices to keep the codebase reliable.

Aspace Network and Technology

Full-Stack Developer · Full-time · Remote

- Engineered a library of 50+ reusable React components, ensuring UI consistency across 12 client projects.
- Built scalable NestJS backend services using repository patterns to support high-traffic applications.
- Integrated REST, GraphQL, and tRPC APIs across multiple services.
- Containerised services with Docker to streamline and standardise deployments.

Confidential — NDA Protected

Full-Stack Engineer · Full-time

- Developed two major production applications under NDA: a real-time remote collaboration platform (chat, document sharing, task management) built with NestJS, PostgreSQL, Redis, WebSockets, Next.js, Docker, Kubernetes, and AWS.
- Built a secure fintech payment and expense management platform featuring digital wallets, P2P transfers, automated transaction categorisation, KYC/AML compliance modules, and admin analytics dashboards.
- Collaborated with cross-functional teams across design, product, and QA; contributed to architecture discussions and long-term scalability strategies.

OPEN SOURCE CONTRIBUTIONS

Outray Active contributor to Outray, an open-source alternative to ngrok that exposes local servers to the internet via HTTP, TCP, and UDP tunnels. The project supports custom domains with automatic TLS, a real-time traffic dashboard, team collaboration with role-based access, and is built entirely in TypeScript.

PROJECTS

iDispatch: Managed 24/7 dispatch platform for limo and ground-transportation companies, with multi-source trip ingest, a full reservation lifecycle, and Stripe and QuickBooks billing.

Jenora AI: AI relationship-insight app for couples, using psychometric assessments scored by a custom ML engine across compatibility, stability, and growth.

Worldwide Greeter: Airport meet-and-greet concierge marketplace connecting travelers with on-the-ground greeters, with live flight tracking, GPS routing, and in-app payments.

DeepEllum AI: Platform to find, use, and deploy MCP-compatible AI agents for automating marketing, sales, and operations workflows.

HackHyre: AI-powered hiring platform that matches job seekers with companies by analysing compatibility across 50+ dimensions.

Ellum AI: SaaS platform using AI agents to automate content, social media, and marketing workflows.

Gradific: AI-powered grading platform that turns hours of marking into minutes, with automated assignment scoring and plagiarism detection.

Kemuko: Regional edtech platform delivering affordable, localised online courses, credentials, and certifications.

Ticketeur: Platform for buying tickets, organising events, and discovering local happenings.

WalPress: Decentralised, serverless site-builder for deploying websites on the Sui blockchain with Walrus storage.

Simoles: Open-source decentralised exchange featuring wallet-to-wallet messaging and integrated customer support.

EDUCATION & CERTIFICATIONS

B.Sc. Cybersecurity · Miva Open University, Abuja

B.Eng. Computer Engineering · Bayero University, Kano

Software Engineering Certificate · ALX Africa: Intensive, project-based programme covering full-stack development, systems programming, algorithms, and professional engineering practices.