

Ulimhunye Agbama

Principal Full Stack Engineer | System Architecture & Technical Leadership

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🔗 Profiles

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📄 Summary

Principal Full Stack Engineer with 7+ years of experience leading technology strategy, cloud architecture, and multi-platform engineering (Web, Mobile, Desktop). Proven leader managing engineering teams of up to 12 developers while maintaining 99.9% platform availability across microservice architectures. Leverages AI-assisted development workflows to increase team sprint velocity by 35%. Creator of Ryda AI, a custom LLM model for real-time spatial mapping and route optimization.

🎓 Education

Miva Open University

Bsc. Software Engineering (First Class) • 4.65 - First Class

Software Engineering

Nigeria • 2020 – 2024

Completed online/distance degree program concurrently alongside full-time executive and engineering leadership roles.

<https://miva.edu.ng>

👜 Work Experience

525System

Calabar, Cross River State, Nigeria

Chief Technology Officer

May 2019 – Sep 2026

- Direct executive technology strategy, enterprise system architecture, and security governance across cloud software products serving 100K+ active users.
- Scaled the engineering organization from 3 to 12 developers while establishing CI/CD governance and reducing annual cloud infrastructure overhead by 25%.
- Spearheaded technological process automation and security governance frameworks, maintaining 99.9% platform uptime while lowering operational expenditure.

<https://525system.com>

Habeep

Lagos State, Nigeria

Development Team Lead & Full Stack Engineer

Mar 2021 – Mar 2025

- Led cross-functional engineering teams of 8+ developers building high-concurrency microservices, backend APIs, message queues, and notification engines handling 200K+ daily requests.
- Integrated secure payment processing platforms handling \$50K+ in monthly transaction volume and built real-time voice and chat messaging supporting 30,000+ active users across Web and Flutter mobile apps.

<https://habeep.org>

CVtoCAREER

Australia (Remote)

Senior Backend & Full Stack Developer

Feb 2024 – Jun 2024

- Architected backend API microservices, OAuth authentication systems, and dedicated AI manager services.
- Designed and deployed an automated AI-driven regression testing system with real-time admin reporting, reducing QA bug-detection cycles by 50%.

<https://cvtocareer.com>

PayMaxNg

Nigeria

Full Stack Developer

Feb 2022 – Sep 2022

- Engineered real-time media streaming backend infrastructure supporting video calls, voice streaming, and WebSockets chat with sub-100ms latency for 25,000+ active user connections.

- Built multi-platform client applications across Quasar/Vue.js mobile and Electron desktop, accelerating cross-device user engagement by 40%.
- Valorant Videos

Los Angeles, CA (Remote)
- Data Scientist (Contract)

Nov 2022 – Dec 2022
- Engineered automated telemetry data processing pipelines using Nest.js to parse post-match JSON game records across 50,000+ match files.
 - Optimized data structures and query parsing algorithms, accelerating analytical query speeds by 35% for competitive player analytics.

<> Key Projects

- Ryda AI – Specialized Road Mapping LLM

2025 – Present
- Architected and fine-tuned a domain-specific spatial mapping LLM using PyTorch, HuggingFace (QLoRA parameter-efficient fine-tuning), and Go to process real-time road telemetry across 100K+ spatial points.
 - Optimized model quantization and inference execution pipelines, reducing routing query latency by 40% and enhancing spatial rendering precision for active mapping systems.

& Core Skills

- System Architecture & Leadership

Full Stack Architecture, System Design, Microservices, API Design, Security Governance
- Backend Engineering

Node.js, Nest.js, Go, Rust, Python, REST APIs
- Frontend Engineering

TypeScript, React.js, Next.js, Vue.js, Redux, Tailwind CSS
- Cross-Platform & Real-Time Systems

Flutter, Ionic, Electron, WebRTC, WebSockets, Socket.io
- Custom LLMs & AI Development

Ryda AI, PyTorch, HuggingFace, LLM Fine-Tuning, OpenAI API, Google Gemini
- AI Productivity & Developer Tooling

Cursor, GitHub Copilot, Claude Code, Prompt Engineering, AI Agents
- DevOps & Infrastructure

Docker, CI/CD, Cloud Hosting, Process Automation, Git

📜 Certificates

- AWS Certified Solutions Architect - Associate

2024
- Amazon Web Services (AWS)

Deepened expertise in multi-region cloud infrastructure, serverless architecture (Lambda, ECS, DynamoDB), and cost-efficient fault-tolerant system design, directly enabling scalable 99.9% uptime deployment patterns.
- Certified SAFe® Agilist (SAFe Agilist)

2023
- Scaled Agile

Expanded knowledge of enterprise Agile frameworks, Lean-Agile leadership, and Agile Release Train (ART) execution, strengthening cross-functional team coordination and sprint velocity.
- Cisco IOS Networking Certification

2022
- Cisco

Enhanced foundational understanding of routing protocols, network security, TCP/IP stack optimization, and infrastructure topology, improving real-time WebSockets and socket-level software performance.
- Front-End Developer Professional Certificate

2022
- Meta / Coursera

Advanced knowledge in modern component design systems, web accessibility standards (WCAG), state management architectures, and cross-browser performance optimization.

2023

Mastered asynchronous event-loop mechanics, stream processing, microservice API design, and memory profiling in Node.js, boosting backend API throughput.

2023

Advanced proficiency in Vue 3 composition API, state management patterns, and enterprise architectural design in modern progressive web applications.

English

NATIVE_OR_BILINGUAL