

Farouq Okeniyi Tobiloba

Full Stack Developer Specializing in AI-Driven Web Applications and Data Analysis

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Professional Summary

Dynamic Full Stack Developer and Data Analyst with expertise in architecting scalable, secure, and AI-integrated web applications. Proficient in JavaScript, TypeScript, and exploring Go, I deliver robust solutions focused on authentication, authorization, and data driven insights. Skilled in analyzing encryption and decryption algorithms under memory constraints, optimizing performance for secure systems. Adept at leveraging Docker, CI/CD, and cloud platforms (AWS, Vercel, Dockers) to streamline deployment pipelines, ensuring high performance software solutions. Passionate about tackling complex challenges, collaborating in agile environments, and advancing AI driven and data centric technologies through innovative problem solving.

Work Experience

Software engineer (Remote)

CogniX — Nairobi, Kenya

January 2025 – Present

- Architected and deployed an AI powered virtual therapy assistant, integrating frontend (React.js) and backend (Node.js, Express.js) pipelines, resulting in a \$300,000 seed funding round and Google's recognition for innovative mental health solutions.
- Enhanced system reliability by 20% using monitoring tools (PostHog, DBeaver), optimizing performance through real time analytics and database insights.
- Optimized AI model integration, improving therapy response accuracy by 30% through seamless API connectivity and PostgreSQL database management.
- Accelerated project timelines using agile methodologies and CI/CD pipelines, ensuring zero downtime during deployments on AWS

Backend Developer

AcadaLens — Kwara State, Nigeria

October 2024 – Present

- Developed and integrated AI driven features for an AI powered JAMB test management platform, directly contributing to securing investor funding through enhanced platform functionality.

- Designed a secure, scalable backend with Node.js and Express.js, implementing JWT-based authentication and role-based access control.
- Streamlined database operations using PostgreSQL and Drizzle ORM, achieving improvement in query performance through optimized indexing and joins.
- Collaborated in agile sprints to deliver user-friendly interfaces, increasing user satisfaction metrics based on feedback surveys.

Intern, Full Stack Development

Code Squad — Kwara State, Nigeria

April 2024 – September 2024

- Engineered secure authentication systems, implementing JWT token based login and signup flows, enhancing user session security with zero reported breaches.
- Reduced team workload automating routine tasks, allowing senior developers to focus on high priority features and accelerating project delivery.
- Contributed to staff discussions on emerging technologies, proposing solutions that improved development workflows by 10%.
- Demonstrated proactive problem solving, taking on complex challenges that enhanced system reliability and performance.

Personal Projects

Healtify – Health Management System

april 2025 – Present

- Single-handedly designed and deployed a health management system, integrating AI-driven analytics for personalized health insight.
- Implemented efficient background task processing using BullMQ and Redis, reducing task execution time under high workloads.
- Orchestrated containerized deployments with Docker and CI/CD pipelines.
- Conducted data analysis to optimize system performance, leveraging insights to refine AI model accuracy and user experience.

Encryption Algorithm Analysis

December 2024 – June 2025

- Analyzed encryption and decryption algorithms under memory constraints, deriving insights on how memory affects these algorithms
- Documented findings to guide secure system design, enhancing data protection strategies for resource constrained applications.

Technical Skills

- **Programming Languages:** JavaScript, TypeScript, Go (Learning)
- **Frontend Development:** React.js, Tailwind CSS, Bootstrap

- **Backend Development:** Node.js, Express.js, NestJS
- **Database Management:** PostgreSQL, MySQL, MongoDB, Drizzle ORM, Sequelize.
- **Data Analysis:** Algorithm Analysis, Performance Optimization, Data-Driven Insights
- **Authentication & Security:** JWT, OAuth, Refresh Tokens, Role-Based Access Control, Encryption/Decryption
- **Cloud & DevOps:** AWS, DigitalOcean, Vercel, Railway, Docker, CI/CD
- **Monitoring Tools:** PostHog, DBEaver
- **Version Control:** Git, GitHub
- **Database Optimization:** Query Optimization, Indexing, Joins, Database Security

Soft Skills

- Agile Methodologies (Scrum, Sprint Planning)
- Team Collaboration & Leadership
- Problem-Solving & Innovation
- Adaptability in Fast-Paced Environments
- Languages: English (Fluent), Yoruba (Native)

Hobbies & Interests

- Engaging in Developer Communities & Networking
- Exploring Gadgets & Hardware Innovations
- Sports: Football, Basketball, Motorsport
- Strategic Gaming & Research