Trinity Ogwezi Ishioma

Senior Engineer • Backend Specialist

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🎓 Professional Summary

I'm an engineer who doesn't just write code — I design systems that scale, perform, and endure. With over 3 years of hands-on experience building production-grade applications serving 500,000+ users, I've led the development of resilient backend architectures, real-time infrastructures, and secure microservices using **Node.js**, **Spring Boot**, and **Python**. I've reduced latency by 60%, improved system reliability under pressure, and built features that drive real-world impact. Whether I'm debugging a tough issue, optimizing databases, or mentoring junior engineers, I bring clarity, precision, and ownership to every part of the build process. I care deeply about scalable solutions, clean architecture, and building tools that stand the test of time.

⟨⟩ Technical Skills

Backend Development

▷ Node.js, Express.js

▷ Spring Boot, Java

▷ Python, Django

▷ REST/GraphQL API Design

▷ Postman, Swagger (API Testing & Docs)

▷ Microservices Architecture

Frontend Development

▷ React, Next.js, TypeScript

▷ Tailwind CSS, Three.js

▷ State Management (Redux/Zustand)

▷ Web Performance Optimization

▷ Responsive Web Design

▷ WebSockets, Socket.io

▷ Authentication (JWT, OAuth)

Database & Storage

▷ MongoDB, Mongoose

▷ PostgreSQL, MySQL

▷ Redis

▷ Firebase, Supabase, Appwrite

▷ Database Sharding

▷ Query Optimization

DevOps & Cloud

▷ AWS (EC2, S3, Lambda, RDS)

▷ Docker, Kubernetes

▷ CI/CD Pipelines

▷ Nginx, Load Balancing

▷ Serverless Architecture

Specialized Skills

▷ AI Integration (DeepSeek)

▷ Real-time Systems

▷ Performance Optimization

▷ Test-Driven Development

▷ System Architecture

▷ Security Best Practices

💼 Professional Experience

Senior Backend Engineer - Confidential   Current   2025 - Present

- Led the design and implementation of a **scalable microservices architecture** that reduced API response times by **60%** and increased system throughput to handle **10,000+ concurrent users**

- Developed a **real-time notification system** using WebSockets and Redis that improved user engagement by **35%**

- Optimized database queries and implemented **caching strategies** that reduced server costs by **$8,000/month** while maintaining 99.9% uptime

- Implemented **JWT authentication** with role-based access control that reduced security incidents by **40%**

- Mentored **3 junior developers**, conducting code reviews and establishing best practices for the backend team

Senior Frontend Engineer - V-Tickets   Current   2024 – Present

- Architected and led the development of a **Next.js ticketing platform** serving **users**, with a focus on performance and scalability

- **Reduced initial bundle size by 42%** through advanced techniques like code-splitting, dynamic imports, and tree-shaking, improving load time by **1.8s**

- Implemented **real-time seat availability** updates using WebSockets, reducing support tickets by **30%** and boosting user conversion rates

- Built a reusable **component library and design system** using Tailwind CSS and Storybook, accelerating development by **50%**

- Collaborated cross-functionally with backend and product teams to ship high-impact features with tight turnaround times

AI Backend Engineer - Contract   2025

- Built a **Spring Boot microservice** integrating DeepSeek AI that processed **100+ daily queries** with **<1.2s latency**

- Reduced customer service tickets by **25%** by implementing **context-aware dialogue flows** and automated responses

- Achieved **92% cache hit rate** during traffic spikes through strategic Redis TTL implementation

- Designed and implemented a **rate-limiting system** that prevented API abuse while maintaining service availability

🖥 Technical Projects

Sentinel API - Node.js, Express, MongoDB, Redis

- Developed a **production-ready backend API** for authentication and user management, featuring **JWT with refresh tokens**, role-based access control, and comprehensive security measures

- Implemented **rate limiting**, request validation, and input sanitization to protect against common vulnerabilities

- Designed optimized **MongoDB schemas** with proper indexing that reduced query times by **75%** under load

- Integrated **Redis caching** for frequently accessed data, achieving **95% cache hit rate** during stress testing

- Configured **detailed logging** and monitoring with Winston and Sentry for production debugging

○ View on GitHub   ⇔ Live Demo

Bob the Bar AI - Node.js, Express, MongoDB, DeepSeek, Postman

- Built an **AI-powered assistant** that analyzes a user's liquor collection and provides intelligent recommendations for new bottles and pairings

- Integrated **DeepSeek AI** to process natural language queries and generate personalized responses based on collection data

- Implemented **modular APIs** for user management, inventory tracking, and intelligent search functionality using Node.js and Express

- Used **Postman** for API testing and workflow validation, ensuring consistency and reliability across endpoints

- Designed a flexible schema with **MongoDB and Mongoose** to support dynamic inventory categories and user preferences

○ View on GitHub

Event-Driven Ticketing System - Node.js, PostgreSQL, WebSockets

- Architected a **high-performance ticketing API** capable of handling **500+ requests/second** during peak sales periods

- Implemented **real-time seat availability updates** using WebSockets, reducing customer complaints by **30%**

- Designed a **database sharding strategy** to distribute write loads across multiple PostgreSQL instances

- Developed a **bulkhead pattern** implementation that prevented cascading failures during traffic spikes

🎓 Education & Certifications

Advanced Diploma in Software Engineering - Aptech Nigeria   Mar 2023 - July 2025

- Graduated with **Distinction** (Top 5% of class)
- Relevant Coursework: **Microservices Architecture, Database Optimization, Cloud Computing, AI Integration**

AWS Certified Developer - Associate   Dec 2024

Professional Scrum Developer (PSD)   2025