Riches Ogigi

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Full Stack Software Engineer

Riches is a Full Stack Software Engineer with strong backend expertise and hands-on experience building scalable web applications. He is skilled in NestJS, PostgreSQL, TypeScript, and modern development practices.. He is a Computer Science and Mathematics student with passion for creating innovative, efficient solutions.

Education

Mountain Top University, Ogun State   **September 2022 - July 2026**

B.Sc. Computer Science and Mathematics
- Coursework: Machine Learning, Databases, Computer Networking & Communication, Discrete Math, Data Structures & Algorithms, Computer Architecture & Organisation, System Analysis & Design.
- Software Development Lead, MTU STEM Community

Projects

Convo | GitHub

A secure, real-time chat application with advanced chat room functionality and Websocket integration
- Backend architected with **NestJS**, **Prisma ORM**, **PostgreSQL** for data persistence, and Redis for session management, caching and real-time message queuing
- Frontend built with **NextJS** and integrated with NestJS backend using **Websocket** connections for instant messaging
- Developed an **authentication system** to secure API endpoints, ensuring information integrity.

CourseFlow Backend | GitHub

Enterprise-grade university course management system API with comprehensive academic administration capabilities.
- Built with **NestJS**, **TypeScript**, **PostgreSQL**, and **Prisma ORM** following clean architecture principles and repository pattern
- Implements **JWT** authentication with Passport, role-based access control (students/staff/admin), and comprehensive input validation using **DTO**s
- Core features: course scheduling with conflict detection, department management, user administration, complaint system, and venue management
- Advanced functionality includes CSV bulk import/export operations, comprehensive health monitoring with Kubernetes probes, auto-generated Swagger documentation

Skills and Technologies

Programming languages: Golang, Python, TypeScript,, Rust
Technologies: NodeJS, NestJS, PostgreSQL, Git/GitHub, NextJS/React, Redis, Prisma
Other Tools: Swagger, Jest, Docker