Adeyemi Abiade

Software Developer | Backend Specialist (<u>Node.js</u>, <u>ASP.Net</u> Core, Fast API)

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Professional Summary

Backend developer with hands-on experience building secure, scalable systems that support a wide range of applications and services. Skilled in Node.js, TypeScript, MongoDB, Redis, and cloud-native tooling. I design backend services and APIs that are easy to integrate, reliable in production, and performance-tuned to support a seamless experience across platforms. Committed to writing clean, maintainable code and building systems that serve both product goals and developer efficiency.

Technical Skills

- **Backend:** Node.js (Express, NestJS), Bun, Golang (Gin), Python (FastAPI), C# (.NET minimal web API's)
- **Frontend:** React.js, Next.js, Tailwind CSS, EJS
- **Databases:** MongoDB, MySQL, Redis
- **Cloud & DevOps:** AWS (EC2), Docker, PM2
- **Messaging & Queues:** BullMQ, RabbitMQ, WebSockets (Socket.io)
- **Security & Authentication:** JWT, OAuth, RBAC, API security
- **Testing & CI/CD:** Git, GitHub, GitHub Actions

Experience

Oyeah Technologies — Backend Developer

AUGUST 2024 - APRIL 2025

- Designed and implemented escrow functionality, ensuring secure transactions.
- Integrated payment gateways and identity verification, reducing fraud risk.
- Utilized **BullMQ** for background task processing (e.g., product moderation, notifications).
- Developed a real-time chat system for customer support and dispute resolution.
- Implemented **RBAC** for secure, role-based access control to platform features.
- Optimized database performance with indexing and caching strategies for faster queries.
- Deployed and managed backend services on **AWS**, ensuring scalability and high availability.

Zumbox Technologies — Backend Developer

DECEMBER 2024 – PRESENT

- Led backend development for a client web application suite, boosting responsiveness by 30%.

- Optimized **MongoDB** queries, reducing data retrieval times by 40%.

- Collaborated on **API optimization**, cutting data load times by 25% and improving performance.

- Engineered a scalable backend architecture, improving system reliability and user experience.

- Addressed and resolved critical backend issues, improving system uptime by 20%.

Projects

ISMS (School management Portal)

NestJS · MongoDB · TypeScript · RBAC · Auth · Rate Limiting · Payment API's

Designed and built the backend for a modular school management system using NestJS and MongoDB, applying **TypeScript** and dependency injection (DI) principles for clean architecture and maintainability.
Key features and implementations:

- **Authentication & Authorization**: Designed secure login flows with **JWT** and implemented **RBAC** to manage access across admins, teachers, students, and guardians.

- **Student & Academic Records**: Built endpoints to handle student enrollment, attendance, grades, assignments, exams, disciplinary logs, and achievement tracking.

- **Performance Reporting**: Automated performance summary generation based on continuous assessment and exam data.

- **Payment Integration**: Integrated **Paystack API** for real-time school fee payments, with support for transaction tracking and digital receipts.

- **Rate Limiting & Security**: Applied global and route-level rate limiting to mitigate brute-force and abusive behavior.

- **Modular Architecture**: Adopted a **feature-based structure** with **SOLID principles** and **NestJS's dependency injection**, ensuring scalability and maintainability.

- **Data Modeling & Queries**: Designed optimized schemas and queries for managing user roles, class schedules, attendance logs, and internal communications.

  Impact & Results:

- Successfully developed a **secure, efficient, and scalable backend** that supports critical school management operations.

- Enabled seamless integration of payment systems for easier fee processing, reducing administrative overhead and improving user experience.

🔗 **GitHub Repository :** [Cmdliner/isms_server](#)

SEEES Payment Portal

Backend Developer – Collaboration

- Engineered the backend infrastructure for a student payment system used by the Society of Electrical and Electronic Engineering Students (SEEES), University of Ibadan.
- Designed **Next.js API routes** with **TypeScript** and **Mongoose**, optimizing for structured data flow and maintainability.
- Integrated **Flutterwave** to facilitate secure, real-time payment processing for fees and dues.
- Applied **JWT authentication** and **Zod** schema validation to enforce access control and ensure input integrity.

Live link: *[SEEES Payment Portal](#)*

Shaed – Real-Time Chat App

Full-Stack Developer – Solo Project

- Architected and deployed a full-stack chat platform supporting real-time messaging in public and private rooms.
- Leveraged **Socket.io** and **WebSockets** for responsive, low-latency communication.
- Designed **role-based access control (RBAC)** to manage permissions for room creation, entry, and moderation.
- Secured authentication flow with **JWT** and **OAuth**, enabling flexible login options.
- Introduced search indexing to streamline room discovery and navigation.
- Structured data storage using **MongoDB**, ensuring performance and scalability.

Live link: *[Shaed](#)*

Education

🎓 **Lagos State University, Ojo** – B.Sc. Biochemistry *(Final Year, First-Class)*
🎓 **Nigerian Navy Secondary School, Abeokuta (2014 - 2020)** – SSCE

Languages

- **English** (Fluent)
- **Yoruba** (Native)