

# Ibrahim Abass Tunde

Software Engineer (Go / TypeScript / Node.js)

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## Technical Skills

- Languages Go (Golang), TypeScript, JavaScript, SQL
- Backend Node.js, NestJS, Fiber, Express, GraphQL, REST APIs
- Frontend React, Next.js, Tailwind CSS, Chakra UI
- Database MongoDB (Mongoose), PostgreSQL, MySQL, Redis, TypeORM, Sequelize

## Experience

May 2025 – **Software Engineer, Source MicroFinance Bank**

- Present
- Design and maintain scalable web applications providing core banking services to external customers and internal operations using **NestJS** and **React**.
  - Engineer backend services and data integration layers, ensuring strict adherence to financial industry standards for data protection and authorization.
  - Optimize complex database schemas and implement efficient data access layers, significantly improving data retrieval speeds for transaction history.
  - Resolve critical production incidents related to backend services, minimizing downtime and ensuring high availability for banking operations.

Feb 2025 – **Backend Engineering Team Lead (Internship), Intern Pulse**

- May 2025
- Spearheaded the development of a high-throughput payment gateway system capable of processing over **1 million transactions per day**.
  - Reduced API response times by **40%** by implementing database query optimizations and aggressive caching strategies using **Redis**.
  - Coordinated a team of 17 backend engineers, driving agile development practices, conducting code reviews, and mentoring junior developers on system design best practices.

Jan 2025 – **Full Stack Engineer (Internship), Intern Pulse**

- Feb 2025
- Developed a real-time **Crypto Dashboard** using TypeScript, React, and Tailwind CSS, creating a responsive interface for visualizing live cryptocurrency market data.
  - Engineered a secure payment integration system with Node.js and Express, ensuring seamless transaction processing.
  - Implemented a CI/CD pipeline to automate testing and deployment, reducing manual errors and accelerating the release cycle.
  - Championed Test-Driven Development (TDD) by writing comprehensive unit and integration tests using **Jest**.

Jul 2024 – **Backend Engineer (Internship), Zulfah Academy**

- Nov 2024
- Designed RESTful APIs to support complex business logic, improving overall backend efficiency by **55%**.
  - Implemented robust authentication/authorization mechanisms (JWT/OAuth), ensuring compliance with security standards.
  - Integrated third-party services (Payment Gateways, Analytics) using Sequelize and MySQL to expand application functionality.

## Notable Projects

- 2025 **SchoolHubX (SaaS School Management System)**, *Go, Fiber, MongoDB, Next.js*
- Architected a high-performance multi-tenant SaaS backend using **Go (Fiber)** and **MongoDB**, implementing Clean Architecture patterns to decouple business logic from HTTP transport.
  - Engineered a robust, stateless authentication system using **dual-token JWTs** (Access & Refresh) stored in HttpOnly cookies, enforcing strict **RBAC** for secure resource isolation.
  - Implemented **MongoDB multi-document ACID transactions** to guarantee data integrity during critical workflows (e.g., simultaneous School/Admin creation).
  - Developed automated subscription management logic and integrated SendGrid for transactional emails, creating a seamless onboarding experience.
- 2024 **Movie Reservation System API**, *Node.js, PostgreSQL, Sequelize*
- Designed a scalable RESTful API for ticket reservations, handling user authentication, showtime scheduling, and booking cancellations.
  - Integrated dynamic task scheduling with **NodeCron** to automatically clean up expired showtimes and reservations, ensuring real-time data accuracy.
- 2024 **LorryDorm**, *React, Node.js, MySQL*
- Developed a responsive frontend using React and Tailwind CSS, featuring dynamic charts (Chart.js) for visualizing host income and transaction data.
  - Built reusable, modular components to streamline development and maintainability.

## Education

- 2013 – 2017 **Bachelor of Science – Physics Education**, *University of Ilorin*