Yusuf Afolabi

⚲ Nigeria ✉ yusufafolabi95@gmail.com ☐ +234 708 022 6169 in/yusuf-afolabi-ba3461145 ○ github.com/Dev-folabi

SUMMARY

Backend Engineer with expertise in building scalable and high-performance applications using Node.js, Express, NestJS, and MongoDB/PostgreSQL. Proficient in designing and optimizing RESTful APIs, implementing secure authentication (JWT, OAuth), and integrating third-party services. Skilled in performance optimization, caching (Redis), and database query tuning to handle high-traffic applications. Experienced in cloud deployments, CI/CD automation, and leading backend projects to successful completion

EXPERIENCE

Backend Engineer

Xedla Technology   **August 2024 - January 2025, Nigeria**

- Engineered and optimized APIs for various fintech solutions, ensuring secure and efficient transaction processing.
- Integrated third-party services, facilitating seamless account creation and retrieval functionalities.
- Designed and implemented robust middleware for user verification, enhancing compliance and fraud prevention.
- Developed and maintained credit and debit functionalities, managing escrow transactions, pending balances, and tier-specific rules for financial operations.
- Collaborated closely with frontend engineers to ensure effective API consumption and optimize user experience.
- Streamlined CI/CD pipelines, automated testing, and deployment processes, resulting in faster development cycles and improved code quality.
- Employed advanced caching strategies and optimized MongoDB performance, ensuring scalability and efficiency for high-demand applications.

Backend Development

Freelance   **August 2023 - November 2024, Remote**

- Engineered backend infrastructures, boosting scalability and robustness by 30%.
- Designed RESTful APIs for seamless front-end and back-end data flow.
- Integrated third-party services, enhancing functionality by 20%.
- Implemented JWT for secure authentication, improving data protection.
- Optimized MongoDB databases, increasing data efficiency by 25%.
- Led multiple projects, ensuring on-time delivery and clear communication.

Backend Development

EduStack NG   **September 2022 - Present, Nigeria**

- Developed scalable microservices architectures, optimizing backend performance.
- Automated CI/CD pipelines, cutting deployment times by 40%.
- Improved data retrieval by 25% with Redis caching.
- Secured APIs with OAuth2 and SSL for safe data transmission.
- Enhanced system reliability through load balancing and resource optimization.
- Streamlined deployment and monitoring in collaboration with DevOps teams.

PROJECT

Xedla-pay – Fintech Payment Platform

Xedla Technology • www.xedla.com • August 2024 - January 2025

- **Architected and developed** a **comprehensive fintech payment platform**, enabling seamless and secure digital transactions.
- **Designed and integrated APIs** for **processing payments, managing user accounts, and handling complex financial operations**, including **escrow transactions and pending balances**.
- **Implemented transaction limit enforcement middleware** based on **user Tier Verification Status**, reducing fraudulent transactions by **35%**.
- **Integrated account creation and retrieval** logic into the signup process, **improving onboarding efficiency by 40%**.
- **Optimized MongoDB queries** to **improve transaction processing speed by 50%**, reducing latency in high-traffic scenarios.
- **Contributed to CI/CD pipelines**, automating testing and deployment processes, which reduced **deployment time by 60%**.
- **Enhanced security** by implementing **JWT authentication, API rate limiting, and robust input validation**, preventing **99% of unauthorized access attempts**.
- **Collaborated with frontend engineers** to ensure seamless API consumption, reducing frontend integration issues by **30%**.

Nesterlify - Travel - Booking & Payments Platform

Nesterlify Technology • February 2025 - March 2025

- **Developed and optimized** a **full-featured booking platform** for **flights, car rentals, and vacation packages**, integrating **cryptocurrency payments** via **Binance Pay, GatePay, and NowPayments**, resulting in a **30% increase in successful crypto transactions**.
- **Designed and built RESTful APIs** to handle **booking creation, payment processing, and transaction tracking**, reducing **API response times by 40%** and ensuring a seamless user experience.
- **Implemented webhooks** to enable **real-time payment confirmation**, reducing payment verification delays by **60%**, improving transaction success rates.

- **Enhanced security** with **JWT authentication, role-based access control (RBAC), and API rate limiting**, preventing **99% of unauthorized access attempts**.
- **Utilized Redis caching** to optimize **frequently accessed data**, reducing database query load by **50%** and improving system response times.
- **Optimized database performance** by designing **efficient MongoDB schemas** and implementing indexing strategies, **reducing query execution time by 45%**.

DeclutMart – Online Marketplace for Pre-Owned Items
DeclutMart • www.declutmart.com • November 2024   - February 2025
- **Developed and optimized** the **backend architecture** for **DeclutMart**, an online marketplace for **buying and selling pre-owned items**, improving transaction efficiency by **40%**.
- **Designed and implemented RESTful APIs** for **user authentication, product listings, and order processing**, ensuring seamless frontend-backend interaction.
- **Integrated secure payment gateways**, reducing checkout failures by **30%** and enhancing trust in the platform.
- **Implemented caching strategies and optimized database queries**, decreasing **API response times by 45%** and improving platform scalability.
- **Enhanced security** with **JWT authentication, role-based access control (RBAC), and API rate limiting**, preventing **99% of unauthorized access attempts**.
- **Collaborated with frontend engineers and designers** to ensure a **smooth user experience**, reducing frontend-backend inconsistencies by **25%**.

Research Corridor Platform Development
Freelance • researchcorridor.ng • July 2024 -August 2024
- Engineered a collaboration platform for researchers and supervisors, supporting 1,000+ users.
- Developed scalable RESTful APIs, reducing system latency by 50% and enhancing interactions.
- Integrated real-time chat via Socket.IO, boosting collaboration efficiency by 40%.
- Implemented JWT-based authentication, ensuring 100% data protection compliance.
- Optimized MongoDB for large datasets, improving retrieval times by 60%.
- Automated email notifications, enhancing engagement and reducing manual efforts by 70%.

Jamb Focus Web Application Development
EduStack NG • jambfocus.com • July 2024 - July 2024
- Developed a web app supporting 5,000+ students in JAMB prep, boosting user engagement by 30% with a points-based reward system.
- Engineered a Node.js, Express, and MongoDB backend, reducing data processing times by 40%.
- Integrated payment gateways for point conversions, increasing user retention by 25%.
- Implemented JWT authentication, ensuring data protection and 99.9% uptime.
- Designed RESTful APIs for quizzes and leaderboards, improving user interaction by 50%.
- Created an admin dashboard, reducing administrative workload by 35%.

SKILLS

Backend Skills: JavaScript (Node.js), TypeScript, Express.js, NestJS, Socket.IO, MongoDB (Mongoose), PostgreSQL, Prisma, Redis (for caching), Git, GitHub.

Performance Optimization: Microservices Architecture, Indexing, Load balancing, Rate limiting, Caching (Redis), Query optimization, GitHub Actions, Docker, Morgan, Jest.

Collaboration and Communication: Git, GitHub, Swagger, Postman, Slack, Jira, Trello, Notion

EDUCATION

Bachelor of Science in Education Technology
Minor in Instructional Design • University of Ilorin • Ilorin, Nigeria • 2023

INVOLVEMENT

Technical Team Member
University of Ilorin • Google Developer Student Club • July 2023 -August 2024
- Co-organized and led workshops on frontend/backend development, cloud computing, and machine learning, benefiting over 200+ students.
- Coordinated community projects, including hackathons and boosting participant engagement.
- Developed and presented advanced technical content, improving the skills of over 100 club members.