

# Moses Adebayo

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## EDUCATION

### Lagos State Polytechnic

Higher National Diploma in Computer Science

Lagos, NGA

May. 2022 – Sept 2024

## EXPERIENCE

### Backend Engineer

June 2025 – Present

MIVA Open University

Abuja, NGA

- Develop and maintain scalable backend applications using Python and FastAPI Framework with comprehensive test coverage and TDD practices.
- Implement and optimize RESTful APIs with PostgreSQL and Redis, focusing on query performance and data integrity for educational platform applications.
- Refactor existing Flask codebase to improve maintainability and performance, implementing best practices for code quality.
- Integrate AI-powered features using FastAPI microservices, enhancing platform capabilities with machine learning algorithms for personalized learning experiences.
- Manage asynchronous task processing with Celery and Flower for monitoring, optimizing background job execution and system reliability.

### Full-Stack Developer

Nov 2024 – May 2025

JOPHAB

Remote

- Design and build scalable backend services using Node.js and TypeScript, implementing RESTful APIs and GraphQL endpoints with comprehensive documentation.
- Architect and optimize database solutions using PostgreSQL and Redis, focusing on query performance and data integrity for high-traffic applications.
- Implement cloud architecture with AWS services, PM2 and Nginx, enhancing system scalability and separation of concerns for production deployments.
- Lead code reviews and implement CI/CD pipelines with Docker containers, improving development workflow and reducing deployment errors by 40%.

### Frontend Lead Developer

Oct 2024 – Nov 2024

Foodpulse

Aberdeen, United Kingdom

- Integrated frontend applications with backend services using Express.js and RESTful APIs, ensuring type safety and secure data handling with TypeScript.
- Collaborated with backend developers to design and implement efficient API endpoints with proper authentication and authorization patterns.
- Implemented state management patterns and server-side data fetching strategies with React Query for optimized performance and caching.
- Mentored junior developer in TypeScript best practices and secure API integration patterns, improving team productivity and code quality.

### Full Stack Developer

Aug 2022 – Jan 2024

Remotual

Illinois, Chicago

- Designed and built scalable backend services with Node.js, Express, and TypeScript, implementing RESTful and GraphQL APIs with comprehensive security measures.
- Developed and maintained microservices architecture utilizing Docker containers and AWS cloud deployment for enhanced scalability and reliability.
- Implemented robust data persistence strategies with PostgreSQL and MongoDB, optimizing complex queries and ensuring data integrity across distributed services.
- Created secure authentication and authorization systems with JWT and OAuth2, implementing role-based access control and backend security best practices.

### Frontend Developer

March 2021 – October 2021

Luvanex Group

Lagos, NGA

- Collaborated with backend teams to integrate frontend applications with APIs and external services, including payment gateways and third-party integrations.
- Implemented secure authentication flows and role-based access control systems, reducing security vulnerabilities by 35% through proper validation.
- Worked with server-side rendering techniques and caching strategies to improve SEO and initial page load performance by 40%.
- Developed data visualization components and dashboard interfaces for backend metrics and analytics on internal management systems.

## PROJECTS

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### **Docksmith CLI** | *TypeScript, Node.js, Docker, AWS* 2025

- Created a CLI tool that automatically detects project frameworks and generates compatible Dockerfiles with optimized cloud deployment configurations.
- Implemented intelligent framework detection algorithms for Node.js, Express.js, Next.js, and other popular frameworks with 95% accuracy.
- Designed clean, extensible architecture following best practices, allowing community contributions for additional framework support and cloud integrations.

### **Interactive Assessment Platform** | *Node.js, TypeScript, Express, MongoDB, WebSockets, AWS* 2024

- Architected and implemented a highly scalable backend system for an assessment platform with RESTful APIs and real-time WebSocket connections.
- Designed optimized database schemas in MongoDB with proper indexing for query performance, implementing comprehensive data validation and sanitization.
- Built secure authentication and authorization system with role-based access control, ensuring data security and compliance with educational privacy standards.

## TECHNICAL SKILLS

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**Programming Languages:** Python, Node.js, TypeScript, JavaScript (ES6+)

**Backend Technologies:** Flask, FastAPI Framework, Express.js, RESTful APIs, Microservices Architecture

**Databases:** PostgreSQL, MongoDB, Redis, Kafka, MySQL, Database Design & Optimization

**Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, Kubernetes, CI/CD Pipelines, PM2

**Security & Tools:** JWT, OAuth2, Sessions, Git, Postman, Swagger

**Task Management & Monitoring:** Celery, Flower, Logfire, Background Job Processing

**Frontend:** React, TypeScript, Tailwind CSS, Framer-Motion, Server-Side Rendering