

JOSEMARIA OLUCHUKWU ODUMODU

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PROFESSIONAL SUMMARY

Backend Engineer with 4+ years experience building scalable server-side applications and Restful APIs. With a solid foundation in full-stack development, I've evolved to focus primarily on backend architecture with proven track record optimizing database performance by 90%, implementing real-time communication systems processing, and architecting secure backend infrastructure with 99.9% uptime. Former architecture graduate bringing unique spatial thinking to software design. Passionate about mentoring developers and delivering high-performance backend solutions.

WORK EXPERIENCE

Backend Engineer | Ms. SOMUYA MANALAPU – USA (Remote)

March 2025 – December 2025

Bumpit – Real-time Location-Based Dating Application.

- Architected Scalable NestJS backend using Domain-Driven Design with clear separation of concerns across core business logic, infrastructure layer and shared libraries
- Implemented provider-agnostic design pattern and dependency injection, enabling seamless integrating of multiple payment providers (Apple pay and Google play billing) and third-party services
- Optimized MongoDB geospatial queries reducing location-based matching from 2s to 180ms (91% improvement)
- Implemented comprehensive authentication system with JWT, OAuth 2.0, and role-based access control (RBAC)
- Built async job processing system using BullMQ for background tasks and scheduled operations.
- Developed subscription management system with tiered access control and feature-based permissions.
- Integrated 8 third-party services: Persona for identity verification, Firebase Cloud Messaging for push notifications, AWS S3 media storage, Twilio for SMS two-factor Verification, Apple pay and Google play billing for mobile payments, MongoDB Atlas for database, and Redis Cloud for caching
- Delivered production-ready MVP in 8 months collaborating with mobile developer, UI/UX designer, and product manager using Agile methodology

Backend Engineer | Ms. SOMUYA MANALAPU – USA (Remote)

November 2024 – Januaray 2025

Unspokenn – Secure Incident Reporting Platform

- Built secure reporting platform serving 800+ active users with zero security breaches or data leaks
- Developed comprehensive backend supporting 4 portals: public site, user dashboard, admin panel with advanced filtering and case tracker
- Implemented JWT authentication with role-based access control reducing unauthorized access attempts to 95%
- Designed MongoDB schema with validation rules ensuring 99.9% data integrity across 2,000+ incident reports
- Implmeneted AES-256 Encryption for sensitive data achieving SOC 2 compliance standards
- Reduced incident submission time from 5 minutes to under 1 minute through optimized API workflows.
- Conducted thorough security audits and implemented encryption protocols for data protection
- Built RESTful APIs with comprehensive error handling and logging mechanisms

Full Stack Developer | AltSchool Capstone Project

July 2024 – September 2024

Eventful – Event Ticketing Platform

- Developed full-stack ticketing platform processing \$1000+ in ticket sales within its first month
- Built robust backend APIs using Express.js with MongoDB for data persistence
- Implemented Redis caching reducing page load times by 55% (from 2.2s to 1s)
- Integrated stripe payment system handling 300+ transactions with 99.8% success rate
- Optimized MongoDB queries improving ticket search and filtering performance search by 68%
- Created responsive frontend using React, Vite, and TypeScript serving 1500+ active users

TECHNICAL SKILLS

Languages & Frameworks: JavaScript, Typescript, python, Node.js, NestJS, Express.js

Databases & Caching: MongoDB Atlas, PostgreSQL, MySQL, Redis, Redis Cloud, Database Schema Design, Query Optimization, Geospatial Queries

API Development: RESTful API Design, GraphQL, API Documentation, API Integration, Postman, Swagger

Real-Time & WebSockets: Socket.io, WebSocket Implementation, Live Data Streaming, Real-Time Messaging

Authentication & Security: JWT Authentication, OAuth 2.0, Role-Based Access Control (RBAC), AES-256 Encryption, bcrypt, Data Protection, Security Auditing

Architecture & Design: Domain-Driven Design (DDD), Microservices Architecture, Layered Architecture, System Design, Scalable Backend Infrastructure, Performance Optimization, Caching Strategies, SOLID Principles

Tools & Development: Git, GitHub, Agile Development, Scrum, Code Review, Pair Programming, Version Control

EDUCATION

Backend Engineering Program

AltSchool Africa
Class of 2023

Bachelor of Science in Architecture

Nnamdi Azikiwe University, Awka, Anambra State
Year of Graduation: 2019

Ordinary National Diploma in Architecture

Federal Polytechnic Oko, Anambra State
Year of Graduation: 2015

COMMUNITY INVOLVEMENT & ACHIEVEMENTS

- **Benin AI Hackathon Participant:** Built multimodal AI platform for agricultural communities using OpenAI and Hugging Face
 - **Anambra Techies Community** - Regular contributor to tech meetups and knowledge-sharing sessions
 - **SMFest Hackathon Achievement** - Secured 2nd place with innovative software solution, demonstrating collaborative problem-solving skills and technical excellence
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REFERENCES

References available upon request.