

# JOSEMARIA OLUCHUKWU ODUMODU

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## PROFESSIONAL SUMMARY

I am a Backend Engineer specializing in building scalable server-side applications and APIs. With a solid foundation in full-stack development, I've evolved to focus primarily on backend architecture. I transitioned from designing physical buildings as an Architecture graduate to architecting digital solutions in software. This background gives me a distinctive approach to problem-solving, where I apply spatial thinking to create robust, scalable applications.

When I'm not coding, you'll find me mentoring aspiring developers to help them navigate their career paths without getting stuck in tutorial hell. My mission is to make their journey smoother than mine was, believing strongly in work-life balance and the power of a well-rested developer.

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## WORK EXPERIENCE

### Backend Engineer, 02/2025 – Current

*MS. SOUMYA MANDALAPU – USA*

- Architecting and developing **Bumpit**, a real-time location-based dating application with instant messaging capabilities using **NestJS, MongoDB, Socket.io, and Node.js**
- Implementing robust backend infrastructure using NestJS framework for scalable API development
- Designing and optimizing MongoDB database schemas for efficient user matching and location-based queries
- Integrating Socket.io for real-time messaging functionality and live user interactions

### Backend Engineer, 11/2024 - 01/2025

*MS. SOUMYA MANDALAPU – USA / Link: <https://unspokenn.com>*

- Developed **Unspokenn**, a secure platform for sensitive incident reporting with emphasis on user privacy and data protection using **NestJS, MongoDB, and Node.js**
- Implemented comprehensive authentication and authorization systems using JWT and role-based access control
- Designed scalable database architecture with MongoDB for storing and managing sensitive incident data
- Conducted thorough security audits and implemented encryption protocols for data protection

## Backend Engineer, 11/2024 - 01/2025

**TELECLINIX – Altschool Africa Team** | Link: <https://teleclinix-react.vercel.app/>

- Collaborated with a cross-functional team during AltSchool Africa program to build teleclinix, a comprehensive telemedicine platform enabling secure video consultations between patients and healthcare providers using **NestJS, PostgreSQL, and Node.js**
- Architected relational database design using PostgreSQL for managing patient records, appointments, and medical data
- Implemented RESTful APIs for appointment scheduling, patient management, and secure communication features
- Ensured HIPAA compliance and implemented robust security measures for protecting sensitive healthcare information
- Conducted comprehensive testing and debugging to ensure high-quality deliverables

## Full Stack Developer, 07/2024 - 09/2024

**EVENTFUL PROJECT – Remote** | Link: <https://de-eventful.vercel.app/>

- Developed **Eventful**, a comprehensive full-stack ticketing platform designed to simplify event creation, ticket sales, and attendee management using **Express.js, MongoDB, Redis, React, Vite, and TypeScript**
- Built robust backend APIs using Express.js with MongoDB for data persistence and Redis for caching and session management
- Implemented secure payment processing integration and real-time ticket availability updates
- Created responsive frontend interface using React, Vite, and TypeScript for optimal user experience
- Utilized Git for seamless version control and team collaboration, leveraging branching and merging strategies

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## TECHNICAL SKILLS

### Backend Technologies:

- **Server-Side Technologies:** Node.js, NestJS, Express.js
- **API Development:** RESTful API Development, GraphQL, API Documentation, API Integration
- **Database Management:**
  - *NoSQL:* MongoDB, Database Schema Design & Optimization
  - *Relational:* PostgreSQL, MySQL, Query Optimization
  - *Caching:* Redis, In-Memory Caching, Session Management
- **Real-time Applications:** Socket.io, WebSocket Implementation, Live Data Streaming
- **Authentication & Security:** JWT Authentication, OAuth, Role-based Access Control (RBAC), Data Encryption, Security Auditing

- **System Architecture:** Microservices Architecture, System Design, Performance Optimization, Scalable Backend Infrastructure
- **Testing:** Unit Testing, Integration Testing, Test-Driven Development (TDD), API Testing, Automated Testing Suites

### **DevOps & Infrastructure:**

Docker, CI/CD Pipelines, Cloud Services (AWS/GCP), Server Configuration, Performance Monitoring

### **Tools & Development:**

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

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## **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*

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## **COMMUNITY INVOLVEMENT & ACHIEVEMENTS**

- **Mentor** - Actively mentor aspiring developers, helping them navigate career paths and avoid tutorial hell
- **Anambra Techies Community** - Active contributor and participant in tech community events and hackathons
- **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.