

# Mubarak Almustapha — Software Engineer

No. 8 Morgan Street, Ojodu Berger, Lagos, Nigeria

+2348100680153 • mubarakalmustapha1@gmail.com

mubarak-almustapha-50b49322a/ • mubarakalmustapha

## Summary

Full-Stack Software Engineer with 4+ years of experience designing, developing, and optimizing high-performance web applications, APIs, and backend systems. Strong expertise in JavaScript, Node.js, React.js, Python, and Java, with proven ability to design and build scalable systems handling millions of users. Solid foundation in Data Structures and Algorithms, with a strong passion for system design—focusing on performance, scalability, and reliability before writing code. Skilled in API architecture, authentication, caching, and database management (MySQL, MongoDB). Highly comfortable working in remote environments, leveraging tools like Git, Google Meet, and task-tracking systems to collaborate effectively with cross-functional teams.

## Work Experience

### Tech4mation

Lagos, Nigeria

Software Engineer

Mar 2024 – Present

- Engineered scalable backend solutions using **Node.js, Python, Express, and TypeScript**, reducing API response time by 40
- Designed and optimized **RESTful APIs and GraphQL endpoints** to handle high-traffic environments efficiently.
- Led database optimization efforts, reducing query execution time by **over 60%** through indexing and caching (Redis, Memcached).
- Enhanced system security by implementing **JWT, OAuth2, and role-based access control (RBAC)**.
- Automated deployments with **Docker, GitHub Actions, and GitLab**.
- Collaborated cross-functionally to drive feature development, resulting in a **30% improvement in system efficiency**.

### Essential.ng

Lagos, Nigeria

Software Engineer (Contract)

Apr 2023 – Feb 2024

- Developed and maintained multiple applications including a **dating platform**, a **hotel booking system**, and a **news web app**.
- Collaborated with cross-functional teams to deliver products on time and within scope.
- Built secure RESTful APIs and optimized backend performance using **Node.js, Express, React, Laravel, and MySQL**.
- Improved user engagement and performance across applications by implementing caching strategies and responsive designs.

### Freelance

Web Developer

2021 – 2023

- Delivered high-impact web solutions for clients across diverse industries.
- Built and optimized **scalable, secure backend services** with Node.js, Python, Express, and MongoDB.

## Education

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**[Umaru Ali Shinkafi Polytechnic Sokoto]**  
*National Diploma in Computer Science*

**Nigeria**  
*2018 – 2021*

## Projects

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**CRM System:** Developed a CRM system to automate client interactions and enhance business efficiency.

**Live Demo:** [crm.nativetalkapp.com](http://crm.nativetalkapp.com)

Designed and implemented an Omnichannel communication hub, integrating WhatsApp, Facebook, Instagram, live chat, and email into a single platform. This allows businesses to manage all customer interactions from one interface, eliminating the need to monitor multiple channels separately.

**Transxnd:** Built a high-availability remittance platform facilitating global financial support.

**Live Demo:** [transxndme.com](http://transxndme.com)

## Key Skills

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**Backend Engineering:** Node.js, Express.js, TypeScript, API Design, WebSockets, Authentication (JWT, OAuth2)

**System Design:** High-Level & Low-Level Design, SOLID Principles, Design Patterns, Event-Driven Architecture

**API Performance Optimization:** RESTful APIs, GraphQL, Rate Limiting, Caching (Redis)

**Database Management:** MySQL, PostgreSQL, MongoDB (Indexing, Replication, Query Optimization)

**Scalability & Performance:** Microservices, Load Balancing, Message Queues (Kafka), Distributed Systems

**Version Control & CI/CD:** Git, GitHub, GitLab, GitFlow, CI/CD Pipelines

**Project Management:** Agile, Scrum, Jira, Documentation

**Leadership & Collaboration:** Mentoring, Code Reviews, Cross-functional Teams, Engineering Best Practices

**Problem Solving:** Root Cause Analysis, Performance Tuning, System Optimization, Debugging Complex Systems

## Certifications

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**JavaScript Fundamentals:** Code with Mosh

**Node.js Essential Training:** Code with Mosh

**React - The Complete Guide (Hooks, Router, Redux):** Code with Mosh

**Python for Backend Development:** Code with Mosh

**Data Structures & Algorithms:** Code with Mosh

**Software Engineering 101: Plan and Execute Better Software:** Udemy

**Foundations to Communication Mastery:** Udemy