

ALMUSTAPHA YUSUF

SOFTWARE ENGINEER | FULLSTACK DEVELOPER | AI/ML ENTHUSIAST

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SUMMARY

Software Engineer with 5 years of experience designing, developing, and deploying robust web applications. Holds a B.Tech in Computer Science and currently into Artificial Intelligence, Machine Learning, and Natural Language Processing. Skilled in building intelligent systems, including an Agentic Retrieval-Augmented Generation (RAG) solution and an N-gram model for word autocompletion in speech and language processing tasks. Adept at working with modern frameworks and tools, with a strong focus on problem-solving, adaptability, and continuous learning. Passionate about applying AI to solve real-world problems and eager to grow in a collaborative, innovation-driven environment.

TECHNICAL SKILLS

Frontend: HTML, CSS, JavaScript, TypeScript, React, Next.js, Tailwind CSS, React Native, Zustand, Redux, React Query, Apollo Client

Backend: Node.js, NestJS, Express.js, REST APIs, GraphQL, BullMQ, Redis, Docker, MongoDB, PostgreSQL, Microservices, Python, FastAPI

DevOps/Infra: Docker, DigitalOcean, CI/CD, GitHub Actions

AI/ML: Regression Models, Classification Models, Decision Trees, Support Vector Machines, NLP, Vector Search, Retrieval Systems, N-gram models,

PROFESSIONAL EXPERIENCE

School of AI

Jul 2025 – Aug 2025

LLaMA Text Summarizer

- Engineered a full-stack text summarization application using LLaMA2 model via Ollama
- Developed RESTful API with FastAPI for text processing and model inference
- Built interactive web interface using Streamlit for seamless user experience
- Implemented error handling and response optimization for production-ready deployment

Mistral Sentiment Analyzer

- Created real-time sentiment analysis system using Mistral large language model
- Architected FastAPI backend with form data processing and JSON response handling
- Designed intuitive frontend interface for instant sentiment classification (Positive/Negative/Neutral)
- Integrated local AI model deployment for efficient processing without external API dependencies

AI Research & Development Engineer

Agentic RAG System Developer

- Architected advanced Agentic Retrieval-Augmented Generation (RAG) system with autonomous agents that strategically search and synthesize information from multiple knowledge bases
- Built intelligent conversational AI with persistent context management, adaptive learning capabilities, and superior performance over traditional RAG systems

Natural Language Processing Engineer

- Developed statistical language models using Maximum Likelihood Estimation, implementing bigram/trigram models with advanced sampling for coherent text generation
- Built production-ready next-word prediction application with real-time interface, demonstrating practical NLP applications in predictive text and autocomplete systems

Full Stack Developer & Mobile Developer

CoAmana – Federal Capital Territory, Nigeria · Remote

Dec 2023 – Apr 2025

- Contributed to building an insight tool using Next.js (frontend) and NestJS (backend).
- Implemented features using GraphQL, Apollo Client, Zustand, and React Query.
- Collaborated in a distributed team to enhance analytics capabilities and user experience

Full Stack Developer

Clive Alliance – Lagos, Nigeria · Remote

Nov 2022 – Feb 2024

- Developed fintech solutions for Zikora Bank and Nitroserve, a monitoring system.
- Built applications using React, Node.js, TypeScript, Redux, and BullMQ.
- Optimized backend queues and caching using Redis.

Frontend Developer

Soft School – Nigeria · Remote - Part time

June 2023 – Present

- Soft School, a startup offering digital solutions for managing secondary school operations.
- Leading frontend development using React, Next.js, Tailwind CSS.
- Overseeing business development, client acquisition, and team coordination.
- Currently managing the second version of the product with features like student admission, staff management, and parent dashboards.

Full Stack Developer

Bime (getbime.com) – Lagos, Nigeria

Feb 2022 – Jan 2023

- Designed and developed REST APIs using Node.js, Express, MongoDB.
- Implemented Google and Facebook OAuth2 authentication.
- Built and styled frontend interfaces using React and Svelte.
- Contributed to 70% of the product development.
- Managed devops and deployment.

EDUCATION

B.Tech in Computer Science

2016 – 2021

Modibbo Adama University, Yola, Nigeria

- Graduated with First Class Honours.

ADDITIONAL INFORMATION

- **Languages:** English, Hausa.