ALMUSTAPHA YUSUF

SOFTWARE ENGINEER | FULLSTACK DEVELOPER | AI/ML ENTHUSIAST

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SUMMARY

Software engineer with 5 years of experience building and deploying production systems, and a strong foundation in computer science. Holds a B.Tech in Computer Science and currently pursuing an MSc in Artificial Intelligence Engineering at Istinye University. Actively developing skills in applied machine learning, with hands-on experience building intelligent systems such as agentic Retrieval-Augmented Generation (RAG) pipelines and N-gram models for language and speech tasks. Proficient in Python and ML fundamentals, with growing exposure to model evaluation, optimization, and experimentation. Self-driven, adaptable, and highly motivated to apply machine learning and computer vision techniques to real-world, large-scale systems.

TECHNICAL SKILLS

Frontend: HTML, CSS, JavaScript, TypeScript, React, Next.js, Tailwind CSS, React Native, Zustand, Redux, React Query, Apollo Client
Mobile: ReactNative, Expo
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
Data Tools: Python, SQL, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, R, ggplot2, Dplyr
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.