

Muhammad Ahmad Kamran

Full-Stack (MERN) Developer | DevOps | AI/ML Enthusiast

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Professional Summary

Full-Stack Developer with production experience across the MERN stack (MongoDB, Express.js, React.js, Node.js), plus hands-on systems and DevOps work — AWS/Linux VPS deployment, Docker, CI/CD, RAID 6 storage, and Prometheus/Grafana monitoring. Also builds applied AI/ML projects: LLM-powered chatbots (LangChain, RAG with FAISS), generative image/video pipelines, and prompt-engineered tools using OpenAI and Groq APIs. Comfortable moving between application code, infrastructure, and AI integration on the same project. Graduating June 2026 from FAST (NUCES) in BS(CS).

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python, SQL, HTML5, CSS3

Frontend & Full-Stack: React.js, Next.js, Node.js, Express.js, RESTful APIs, GraphQL, Tailwind CSS

Databases: MongoDB, PostgreSQL, MySQL, SQL, Firestore

Cloud & DevOps: AWS (EC2, S3), Linux (Kernel & System Config), Docker, CI/CD Pipelines, Git/GitHub, VPS Deployment, RAID 6, Prometheus & Grafana, Kubernetes (fundamentals)

AI / ML & GenAI: LangChain, RAG Pipelines, FAISS, Prompt Engineering, OpenAI API, Groq API, Stable Diffusion (Hugging Face Diffusers), PyTorch, Vision-Language Models (ViT)

Backend Reliability: Caching, Rate Limiting, Queuing, Concurrency & Race-Condition-Safe Writes, JWT/OAuth

Experience

Freelance Full-Stack Developer — STEM Preparations

STEM Preparations LMS | www.stempreplms.cloud [January 2026] – [May 2026]

- Engineered a full-stack Learning Management System using the MERN stack with a RESTful API architecture, role-based access control, and real-time progress tracking.
- Deployed and maintained the application on AWS and a Linux-based VPS using Docker and CI/CD pipelines, applying CDN caching and rate-limiting middleware.

Freelance Full-Stack Developer — Hungry Boys

Multi-Vendor Food Ordering Web Application | www.hungryboys.live [January 2025] – [December 2025]

- Built and deployed a multi-vendor food ordering platform supporting four user roles, with background job queuing and race-condition-safe order processing under load.

Full-Stack Developer — AutiSmart (Final Year Project)

Autism Support Platform | [August 2025] – [June 2026]

- Built a full-stack autism support platform (MERN) with role-based access, integrating the Groq API with prompt engineering for MCQ-based screening assessments.
- Implemented a ViT-16 image classification model in Python, integrated with the Node.js backend to generate diagnostic confidence scores.

Cloud Computing Systems Project (Solo) — FAST (NUCES)

April 2026 – May 2026

- Configured RAID 6 disk arrays for fault-tolerant storage, set up Prometheus/Grafana monitoring dashboards, and performed Linux kernel and system configuration customization.

AI / GenAI Projects

VisaBridge Chatbot — RAG + Conversation Memory

Python | *LangChain* | *OpenAI* | *FAISS* | *Streamlit*

- Built an AI immigration assistant using a FAISS-backed RAG pipeline and OpenAI embeddings to answer queries from curated documents.
- Added conversational memory with CLI and Streamlit interfaces, plus source citations for multi-turn visa queries.

AI Resume Analyzer & Cover Letter Generator

Flask | *OpenAI GPT-4o-mini* | *Python* | *JSON* | *HTML/CSS*

- Built a Flask web app that generates tailored cover letters from resume and job-description JSON using OpenAI prompt engineering.
- Added input validation and a samples page for comparing resume-to-role matches and testing generation quality.

Synthetic Video with Lip-Synced Speech

Python | *Coqui TTS* | *Wav2Lip* | *SadTalker* | *FFmpeg* | *PyTorch*

- Built an end-to-end pipeline generating a talking-head video from a face image and text, with speech synthesis and lip-sync.

- Automated the full video generation flow in one command, using Wav2Lip or SadTalker for animation.

Text-to-Image Generation

Stable Diffusion | *Hugging Face Diffusers* | *Python*

- Implemented a text-to-image generation pipeline using Stable Diffusion via Hugging Face's diffusers library, applying prompt engineering to control output style and quality.

Education

Bachelor of Science, Computer Science — FAST National University of Computer and Emerging Sciences (NUCES) August 2022 – June 2026 | **CGPA: 3.07**

Intermediate in Computer Science (ICS) — Government Community College, Faisalabad May 2020 – June 2022

Certifications

- MERN Stack Development — Innvoy Tech
- Generative AI Internship — Guftugu Publications (Skilled Score)
- Full Stack Web Development Internship — Mentoga (Skilled Score)