KHURSHEED AHMED

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Linkedin | GitHub | Portfolio

EDUCATION

University of Management and Tecgnology — Lahore, Pakistan
Software Engineering Bachelor — Nov 2022 - Present
CGPA: 3.46

EXPERIENCE

EventusSol | Web App Developer   Lahore, Pakistan | October 2023 - December 2024

Worked on building and maintaining responsive web applications using MERN stack and integrated GenAI features in web apps. Collaborated closely with designers and clients to turn business requirements into scalable features. Integrated REST APIs, optimized frontend performance, and ensured cross-browser compatibility. Contributed to both frontend and backend development while following agile methodologies for efficient delivery.

Cricle AI | Generative AI Engineer Intern   Islamabad, Pakistan | July 2024 - October 2024

Worked on building LLM-powered features for real-world web apps, focusing on prompt engineering, context management, and intelligent task automation. Contributed to the development of internal GenAI tools using OpenAI, Groq and LangChain for retrieval-augmented generation (RAG) and agent workflows. Collaborated with senior engineers to fine-tune models and integrate them with full-stack systems. Gained hands-on experience in deploying scalable GenAI components in production-like environments.

SKILLS

Programming Languages:	C++, Python, Typescript, Javascript, Java, SQL, Bash (basic scripting)
Libraries/Frameworks:	React, Node.js, Express.js, Next.js, Flask, LangChain, LangGraph, Tailwind-CSS, Shad-cn, Azure AI studio
Tools / Platforms:	Git, Postman, Vercel, Firebase, Cloudinary, Clerk, Google Colab, Azure, Docker, Jupyter Notebook
Databases:	MySQL, MongoDB, PostgreSQL, ChromaDB, CosmosDB, DuckDB, Supabase, Redis (basic)

PROJECTS / OPEN-SOURCE

Smart Grade AI | Link   *MERN stack, RAG, Flask, LLMs, Clerk, CosmosDB, LangGraph*

Designed and deployed a full-stack, cloud-native assessment platform for automated exam grading using LLMs (OpenAI, Groq, Mistral), OCR (PaddleOCR, OpenCV), and prompt-engineered LangChain pipelines. Architected a modular system with a MERN stack frontend, Flask-based Python AI microservice, and Node.js backend, all containerized with Docker and orchestrated via Docker Compose for seamless deployment on Azure VMs. Implemented secure, scalable infrastructure using Clerk for auth, MongoDB, and Cloudinary for media storage. Integrated Stripe for in-app monetization of AI-driven grading tools and scalable subscription management.
Delivered features like role-based dashboards, real-time grading, automated PDF reports, and CLI-driven DevOps workflows. Selected as a semifinalist in Microsoft Imagine Cup 2025 and won multiple AI hackathons.

Vibe Terminal | Link   *LangGraph, Python, RAG, ChromaDB, Novita AI, Flask*

Built an intelligent, cross-platform terminal assistant that leverages AI agents for natural language command execution, voice input, and contextual shell automation. Integrated LangGraph for multi-step agent workflows and conversational context, enabling features like file management, undo/redo, and directory-aware responses. Designed voice interaction using SpeechRecognition, PyAudio, and TTS (pyttsx3), with CLI built on Typer and Rich for enhanced UX. Enabled secure API usage and cross-OS compatibility, delivering a modern GenAI-powered DevOps assistant. Empowers developers to interact with their system intuitively through natural language, reducing cognitive load and boosting productivity.

ClipSync | Link *React.js, React Native, Supabase, Stripe, Socket.io*

Built a full-stack cross-platform app for clipboard syncing, file sharing, and collaborative workspaces with real-time features and modular architecture. Developed the mobile app using React Native with Kotlin-based native overlay modules, and the web app using React (Vite + Tailwind). Implemented real-time sync using Socket.io, Supabase for auth, storage, and PostgreSQL DB, and integrated Stripe for handling premium feature subscriptions. Architected RESTful APIs with Node.js/Express, and ensured seamless UX across Android, web, and desktop.

Privify | Link *React.js, OpenCV, Exif Tools, Groq, Flask*

Developed a web-based privacy assistant that analyzes multimedia files using LLMs and metadata extraction to detect and redact sensitive content before sharing. Integrated OCR, object detection, and prompt-engineered GenAI workflows for identifying faces, IDs, license plates, and private text. Built with MERN stack, Flask microservices, and secure upload pipelines. Currently integrating deepfake content detection using media forensics research and transformer-based vision models to enhance trust and content authenticity. Positioned for applications in content moderation, digital safety, and AI ethics.

StreamlyAI | Link *MERN stack, RAG, Flask, LLMs, Clerk, CromaDB, LangChain*

Designed and developed a full-stack GenAI platform that converts YouTube videos into searchable, interactive content using RAG pipelines, AI agents, and LLMs (Groq, Cohere). Integrated smart transcription via AssemblyAI, topic segmentation, semantic search with ChromaDB (Vector DB), and a conversational Q&A assistant over transcripts. Engineered features like auto highlight reel generation, real-time querying, and speaker-based segmentation. Built with React (TypeScript), Flask, and integrated scalable APIs for production-ready deployment.

CERTIFICATIONS

- Microsoft Imagine Cup 2025 Semifinalist - **Microsoft Imagine Cup**
- Reasoning with o1 Hackathon - **lablab.ai**
- Agentic AI Hackathon By Microsoft - **Microsoft Americas**
- Generative AI Hackathon with IBM - **lablab.ai**
- Google Gemma 2 AI Challange - **lablab.ai**

HONORS & AWARDS

- Lead a product that selected in Microsoft Imagine Cup 2025 Semifinal
- Won IBM Generative AI Hackathon with WatsonX.
- Provided 3rd best solution in Google Gemma 2 AI Challenge
- Provided 2nd best solution in Telenor Velocity AI in Agriculture Challenge