

MERAJ ALAM

Software Engineer | Full-Stack Development • Data & Analytics • AI / GenAI

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SUMMARY

Final-year B.Tech (Artificial Intelligence) student with end-to-end SDLC experience designing, building, testing, and deploying full-stack applications in Python, Java, JavaScript, React, Node.js/Express, and FastAPI with REST APIs, across SQL, MongoDB, and Firebase data layers with containerized cloud deployment on Docker and AWS. Applies AI and GenAI — LangChain, LangGraph, LLM integration — to practical problems with a measurement-driven testing mindset, and aims to convert technical solutions into measurable business outcomes in technology consulting.

EDUCATION

Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat

2023 – 2027

B.Tech, Artificial Intelligence — CGPA: 6.61 / 10

TECHNICAL SKILLS

Programming: Python, Java, SQL, JavaScript/TypeScript, C++

AI & Data: LLM Integration & Embeddings, RAG Pipelines, Prompt Engineering, Multi-Agent Orchestration, AI Evaluation (Precision/Recall/F1), Data Analysis, Computer Vision (MediaPipe)

Frameworks: React, Node.js, Express.js, FastAPI, REST APIs, LangChain, LangGraph

Databases: SQL, MongoDB, Firebase Firestore

Cloud & DevOps: AWS, Docker, CI/CD, Git/GitHub, Linux

Tools: SDLC, Swagger/OpenAPI, Testing & Validation, Code Review, Debugging, Technical Documentation

Core Strengths: Problem Solving, Analytical Thinking, System Design, Cross-Functional Collaboration, Communication, Adaptability

PROJECTS

Agentic Code Reviewer

[\[GitHub\]](#)

LangGraph · FastAPI · React · Google Gemini · Docker | **Live Demo:** agentic-code-reviewer-f9cn.onrender.com

- Architected a multi-language code review platform on a LangGraph multi-agent pipeline (router → AST analysis → security scan → LLM reasoning), combining deterministic static analysis with LLM reasoning to output security audits, bug detection, and refactored code.
- Developed and documented REST endpoints on a FastAPI backend, implementing Server-Sent Events for streaming review output and Swagger/OpenAPI specifications for downstream integration.
- Engineered an evaluation harness benchmarking review quality against a labelled ground-truth dataset across 10 vulnerability categories, scoring precision, recall, F1, and exact-match accuracy.
- Containerized the service with Docker and deployed it live, covering the full SDLC from architecture and development through testing and release.

AI Mental Health Chatbot with Sign-Language Recognition

[\[GitHub\]](#)

React · Node.js/Express · OpenAI API · MediaPipe · Firebase

- Delivered a full-stack conversational AI application generating empathetic, context-aware responses through the OpenAI API, exposed via a REST endpoint and consumed by a React front end.
- Implemented authentication and profile persistence with Firebase Authentication and Firestore, managing session and account state across the application.
- Integrated a real-time computer vision module (MediaPipe Gesture Recognizer) translating webcam hand gestures into chatbot input, widening accessibility for speech- and hearing-impaired users.

Task Collaboration Platform

[\[GitHub\]](#)

MERN Stack · REST APIs · MongoDB · Node.js/Express · React

- Developed a Trello-style task-tracking and team collaboration platform on the MERN stack, supporting real-time task updates across shared team workflows.
- Designed and integrated REST APIs and a MongoDB data layer to persist task, board, and user records with consistent client-server state.
- Separated the system into a React client and an Express service layer, improving modularity and maintainability of the codebase.

Secure Real-Time Chat Platform

[\[GitHub\]](#)

React · Firebase Firestore · AES-GCM · SHA-512 · Web Crypto API

- Built a real-time messaging application with a React front end and Firebase Firestore backend, synchronising message state across concurrent users.
- Implemented client-side message encryption with AES-GCM via the Web Crypto API, deriving a per-chat key through SHA-512 hashing.
- Hardened credential handling by hashing user passwords with SHA-512 instead of storing plain text.

ADDITIONAL PROJECTS

- Amazon Review & WhatsApp Chat Analysis** [\[GitHub\]](#) — Applied exploratory data analysis to Amazon product review and WhatsApp chat datasets to surface usage and engagement patterns.
- PhoneBook Management System** [\[GitHub\]](#) — Built a Java contact management application using object-oriented design, with record create, search, update, and delete operations.

ACHIEVEMENTS

- Designed, built, and deployed 4 full-stack applications end to end, including 2 Generative AI systems.
- Maintain 20 GitHub repositories spanning AI, full-stack, data analysis, and core Java/C++ engineering.