

Ali Rashid

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Executive Summary

Focused on designing and building scalable backend systems and applied AI solutions with production-ready implementation. Passionate about turning AI capabilities into reliable, maintainable software that delivers real-world impact at scale.

Education

Vellore Institute of Technology Bachelor of Technology in Computer Science and Engineering La Martiniere College ISC Examinations: 97.5%, CISCE Examinations: 95.2%	September 2022 – Present CGPA: 9.39/10 2012 – 2022
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Skills & Competencies

Languages: Python, C, C++, JavaScript **Backend:** REST APIs, Microservices, AuthN/AuthZ, RBAC **Databases:** SQL, MongoDB, CockroachDB
Frameworks: FastAPI, Flask, Node.js, Express, NestJS **Cloud & DevOps:** AWS, Firebase Auth, Docker, CI/CD, Git, Linux, Automated Testing
Applied AI: LLM APIs, RAG Systems, Vector Search, NumPy, Pandas, Scikit-learn, TensorFlow

Professional Experience

Calyb AI <i>Software Engineering Intern</i>	Remote November 2025 – Present
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Python, FastAPI, AWS, AutoGen, ReactJS

- Architected and implemented an AI-powered proctoring engine to detect multiple examination violations in real time during remote proctored assessments.
- Designed and developed a client-side proctoring agent integrated with the UI to capture, preprocess, and stream signals for live monitoring and post-exam analysis.
- Implemented agentic workflows for automated question generation across multiple examination formats, combining LLM-based reasoning with rule-driven validation.
- Built extraction pipelines to parse, structure, and store questions from PDFs and examination papers for reuse and analytics.
- Handled client communication, requirement gathering, and production issue resolution to deliver reliable, business-aligned solutions.

Optum (UnitedHealth Group) <i>TDP Intern</i>	Hyderabad, Telangana June – August 2025
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LangChain, RAG Pipelines, Python, MCP, AI Agents

- Developed and optimized Retrieval-Augmented Generation (RAG) pipelines tailored for healthcare data to improve response accuracy and contextual relevance.
- Assisted in building agentic automation tools to streamline healthcare workflows such as claim validation, appointment scheduling, and medical documentation.
- Integrated structured healthcare datasets with LLM-based reasoning systems to enhance scalability and reliability of backend services.

Recstech Technologies Pvt. Ltd. <i>Software Engineer Intern</i>	Bengaluru, Karnataka May – June 2024
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NestJS, MongoDB

- Engineered backend enhancements for the company HRMS platform, improving functionality and reducing API response times by 20%.
- Implemented authentication mechanisms and Role-Based Access Control to manage permissions for over 200 users.
- Architected the leave management system with automated approval workflows, improving operational efficiency.

Projects

Docify : Universal Document Intelligence System <i>Python, FastAPI, LangChain, LangGraph, FAISS, BM25, Streamlit</i>	2024
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- Designed and implemented an agentic document intelligence system combining semantic vector search (FAISS) with keyword-based BM25 retrieval to improve retrieval recall and answer accuracy.
- Built a LangGraph-based agent architecture with intelligent query routing between document and web search, persistent state management, and streaming responses.
- Engineered modular backend components for document ingestion, hybrid search, session persistence, and multi-chat management, enabling scalable and maintainable system design.

VidGen: AI-Powered Prompt-to-Video Generator <i>Python, FastAPI, Gemini, MoviePy, PIL, Pydantic</i>	March 2024
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- Engineered a multimodal video generation pipeline that converts natural language prompts into structured scripts and rendered video outputs.
- Developed a scalable FastAPI backend to handle asynchronous prompt processing, scene orchestration, and modular video rendering workflows.
- Automated frame generation, visual composition, and audio synchronization using MoviePy, enabling end-to-end video creation.