

Saqib Ali Mir

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Profile

Full Stack and AI Engineer with approximately 2 years of professional experience building enterprise-grade applications. Specialises in Python/FastAPI backends, React/TypeScript frontends, and AI-powered pipelines including conversational AI, RAG systems, and real-time collaboration. Proven track record delivering complex multi-tenant platforms with robust security and scalable DevOps practices. Eager to contribute to product teams building production-ready software.

Professional Experience

Full Stack Developer — Maskan Technologies *June 2025 – Present*

Document Management System — Enterprise Document Processing & AI Platform

- **Conversational AI Assistant:** Built an AI-powered document Q&A system enabling users to upload documents and interact with their content through a context-aware chatbot, using vector search and RAG to deliver accurate, source-grounded answers across large document collections.
- **Scalable Backend Pipeline:** Built a multi-tenant FastAPI (Python) backend with Celery task queues and Redis brokers for asynchronous PDF/OCR rendering and document ingestion, maintaining sub-100ms API response times under concurrent load.
- **Real-Time Collaboration:** Designed a multiplayer document-editing environment using WebSockets and Redis Pub/Sub to synchronise concurrent edits across users, with automatic versioning, visual diff tools, and transactional rollbacks.
- **Security & Multi-Tenancy:** Enforced CSRF validation, IP filtering, fine-grained RBAC, and automated malware quarantine; implemented secure S3-compatible bucket isolation per tenant with strict directory-traversal protections.
- **Frontend:** Engineered a responsive React (TypeScript) + Vite + Tailwind CSS SPA with custom WYSIWYG editors, interactive XML tree-schema editors, live Markdown preview with KaTeX rendering, and OAuth2/Google SSO.

Full Stack Developer Intern — Auroskkil *December 2024 – February 2025*

MERN-Stack E-Commerce Platform

- Developed a full-stack e-commerce platform (MongoDB, Express.js, React, Node.js) with product listings, cart management, and order flows.
- Implemented a voice search feature using the Web Speech API, enabling hands-free product discovery and reducing manual input friction.

Projects

AI Negotiation Chatbot

- **Overview:** Developed a production-level AI-powered negotiation chatbot capable of simulating intelligent, human-like pricing discussions, discount handling, and customer engagement workflows.
- **AI & Conversation Engine:** Integrated DeepSeek API with a RAG-based contextual memory system to handle multi-turn conversations; implemented intent detection, sentiment analysis, and a dynamic counter-offer generation engine using prompt engineering.
- **Backend & Real-Time:** Built an async FastAPI backend with WebSocket support for streaming AI responses, JWT authentication, role-based access control, rate limiting, and a modular AI service layer backed by PostgreSQL and Redis.
- **Frontend & Admin:** Developed a modern React.js chat interface with real-time messaging, typing indicators, conversation history, and a full admin dashboard with analytics and negotiation history tracking.
- **Tech Stack:** FastAPI, Python, React.js, Tailwind CSS, PostgreSQL, DeepSeek API, LangChain, WebSockets, Redis, Docker, JWT.

Technical Skills

Languages & Frameworks: Python, JavaScript (ES6+), TypeScript, Fast API, Node.js, Express.js, React 18, Vite

AI & Conversational Systems: Lang Chain, Llama Index, RAG Pipelines, Prompt Engineering, Semantic Search, Vector Databases, Similarity Search, Hybrid Search, Embedding Search, Conversational AI, Intent Detection, Sentiment Analysis, AI Chatbots, LLM Integration, AI Agents, Contextual Memory, Embedding Models, AI Response Streaming, Retrieval Systems, Multi-Agent Workflows, NLP, Generative AI,

Vector Databases:

Qdrant, Pinecone, FAISS, Chroma DB

Databases & Caching: PostgreSQL, MySQL, MongoDB, SQL Alchemy 2.0, Redis (Pub/Sub & Broker), Vector Databases

Document Processing: RapidOCR, Pytesseract, OpenCV, BeautifulSoup 4, OCR Pipelines

DevOps & Cloud: Docker, AWS S3 / Minio, Celery, Linux, Git, GitHub, CI/CD

Frontend Tooling: Tailwind CSS, React Router, Axios, WebSocket, REST APIs, KaTeX

Education

Bachelor of Technology in Computer Science — Kashmir University 2020 – 2024

Aggregate: 72% • Kashmir, India

Certifications & Achievements

- Backend Development Certificate
- React JS — Complete Guide for Frontend Web Development
- Solved 50+ LeetCode problems spanning Arrays, Trees, Graphs, Linked Lists, and Stacks.