

Md Sahbaz Alam

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Professional Summary

Backend Developer with internship experience building scalable REST APIs, real-time server architectures, and cloud-deployed services using **Node.js**, **Express.js**, **MongoDB**, **PostgreSQL**, **Docker**, and **AWS**. Designed and implemented 20+ production-grade API endpoints with JWT authentication, RBAC, and real-time WebSocket communication via Socket.IO. Experienced in asynchronous, event-driven architecture and backend integration with LLM/AI services.

Technical Skills

Core Backend:	Node.js, Express.js, REST APIs, WebSockets, Socket.IO, JWT Authentication, RBAC, Async/Event-Driven Architecture
Databases:	MongoDB, PostgreSQL, MySQL, Redis
DevOps & Cloud:	Docker, AWS (EC2, S3, IAM, Lambda), GitHub Actions (CI/CD), Render, Vercel
Languages:	JavaScript (ES6+), TypeScript, Python
AI/API:	FastAPI, LangChain, RAG Pipelines, LLM APIs, Third-party API Integration, Postman
Frontend (support):	React.js, Next.js, Tailwind CSS, Redux Toolkit

Experience

Frontend Developer Intern | Kognito Kube Private Limited Hyderabad · Apr 2025 – Jun 2025

- Integrated **10+ REST API endpoints** for real-time data rendering, gaining deep understanding of backend contracts, request/response cycles, and API design patterns.
- Optimized frontend-backend data flow by identifying inefficient API calls and payload structures, reducing latency noticeably.
- Collaborated with backend engineers in Agile/Scrum sprints — contributing to API design reviews, code reviews, and production feature releases.

Projects

CollabTasky — Real-Time SaaS Project Management Platform Live — Frontend — Backend

Node.js, Express.js, MongoDB, Socket.IO, JWT, TypeScript, Next.js

- Designed and developed **20+ RESTful API endpoints** with Node.js/Express.js, implementing **JWT authentication** and granular role-based access control (Owner, Admin, Member).
- Built a **real-time event-driven backend** using Socket.IO, enabling instant Kanban board synchronization across multiple concurrent users via WebSocket connections.
- Architected **MongoDB data models** for projects, tasks, users, and roles — optimizing queries and ensuring data consistency for collaborative real-time use.
- Integrated an **LLM-powered REST endpoint** to analyze project data and return AI-generated task recommendations and workflow insights.

Velquix — GenAI PDF Chatbot Backend GitHub

FastAPI, Python, LangChain, ChromaDB, HuggingFace, Groq Llama 3.3

- Engineered a **FastAPI backend** serving a full **RAG pipeline** — PDF ingestion, vector embedding (HuggingFace), semantic search (ChromaDB), and streamed LLM responses.
- Implemented **async event-driven API endpoints** for document processing and streaming generation; built **session management** with persistent chat history.
- Integrated **LangSmith** for LLM tracing, RAG observability, and production-level backend debugging.

TeachoPia — Learning Management System

Next.js, Node.js, REST APIs, Redux Toolkit

- Developed and integrated REST APIs across **5+ LMS modules** (course, content, banner management) with dynamic data rendering and resilient error-handling patterns.

Education

B.Tech — Computer Science & Engineering | Shadan College of Engineering and Technology Hyderabad · 2022 – 2026

- CGPA: 7.15/10

Achievements & Certifications

- Built **20+ backend and full-stack applications** using Node.js, Express.js, FastAPI, MongoDB, PostgreSQL, Docker, and AWS.
- HackerRank certified** in JavaScript, React, SQL, and Problem Solving.
- Developed production SaaS platform with real-time WebSocket backend, JWT auth, RBAC, and LLM API integration serving concurrent users.