

Mohd Anas

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🐙 GitHub | 🔗 LinkedIn | 🌐 Portfolio

SKILLS

AI & Orchestration: LLMs, Flowise, MCP (Model Context Protocol), RAG, Semantic Search

Backend & Systems: Python (FastAPI), Node.js (Express), REST APIs, System Design, Redis, MongoDB, MySQL.

DevOps & Automation: GitHub Actions, Jenkins, CI/CD, Playwright, Azure, Power Automate, Workflow Automation

SUMMARY

Backend & AI Automation Engineer building scalable backend systems and LLM-powered workflows that automate operations and reduce enterprise costs. At Teradata, optimized backend pipelines to cut system latency by 95% and built RAG-based AI services that reduced LLM token usage by 35% while improving response quality.

WORK EXPERIENCE

Teradata, Hyderabad

Jul 2024 - Present

Software Engineer

- Architected an AI-driven ticket deflection and resolution system using LangChain, embeddings, and MCP to classify requests into self-service vs admin workflows delivered LLM-powered solutions directly to users or auto-created tickets, eliminating duplicates, automating 40% of support volume, and saving 15+ engineering hours per week.
- Engineered a Text-to-SQL Engine with schema chunking and prompt optimization; reduced LLM token consumption by 35% while increasing accuracy on complex multi-table joins.
- Developed Autonomous AI Agents integrated with Jira and Confluence APIs; deployed via Slack and Microsoft Teams to replace manual enterprise operations with natural language workflows.
- Re-engineered Backend Provisioning Workflows using task isolation and parallel execution, resulting in a 75% reduction in cloud setup time (from 60s to 15s).
- Optimized Approval Pipelines by implementing delta-update processing and eliminating redundant DB queries; slashed end-to-end latency by 95% (from 40 minutes to <2 minutes).
- Automated Production Infrastructure by productionizing GitHub Actions-driven image creation pipelines, ensuring 99.9% consistency across development environments.

Teradata, Hyderabad

Jan 2024 – Jun 2024

Software Engineer Intern

- Built Python-based Data Extraction tools to automate validation of PDF-to-Excel workflows, cutting manual audit effort by 80%.
- Developed early-stage backend logic for chatbot frameworks, facilitating the transition from POC to production.

Fusion Technologies

Sep 2023 – Dec 2023

Software Engineer Intern

- Improved API Performance by 40% by implementing Redis caching layers and query indexing for high-traffic endpoints.
- Built automated security testing frameworks to identify and mitigate vulnerabilities (DVWA, Juice-Shop) in web applications.

PROJECT WORK

- **Enterprise CI/CD & Monitoring Automation:** Built automated Jenkins pipelines for token renewal, API synchronization, and stale-data alerts, and implemented a daily Playwright test suite with database-backed reporting — eliminating 6+ hours of manual operations per week and ensuring full system health visibility
- **Tempo Workload Synchronization Engine:** Developed a backend service to automatically synchronize workload schemas with LOA data, including duplicate detection, rollback logic, and daily audit trails — achieving 100% data accuracy for enterprise resource tracking.

EDUCATION

Indian Institute of Technology (IIT) Jammu

Nov 2020 - Oct 2024

Bachelor of Technology in Computer Science

CGPA: 8.39/10

Relevant Coursework: Object Oriented Programming, Databases, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Advanced Data Structures and Algorithms, Image Processing.

AWARDS AND CERTIFICATES

- 99.45 percentile in JEE Mains, ranked under 6000 out of 1 Million+ candidates.
- Among top scorers in CBSE 12th at district level.