MOHAMMED SAFWAN

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Education

Institute of Aeronautical Engineering **Expected 2027**
Bachelor of Technology in Computer Science Engineering; CGPA: 8.5 *Hyderabad, Telangana*

Experience

RAG Data Intern **Sep 2025 – Nov 2025**
GDOT Contractor *gdotcontractor.com*

- Built end-to-end pipelines to parse and structure raw government document data from various formats to JSON, CSV and SQL databases for RAG ingestion using Python libraries like tabula and pdfplumber.
- Processed and versioned large-scale government specification datasets, integrating Cloudinary asset links, handling yearly revisions, and delivering clean, validated structured data for downstream chatbot ingestion.
- Collaborated on building and designing an infographics video generator from PDF input using N8N workflows, LLM calls and animation libraries like Manim.

Projects

ResourceBase - Academic Resources Platform | *Python, Flask, SQL, Bootstrap* | *GitHub* | *Live Link* **Nov 2023**
- Built and deployed a full-stack web platform serving 1,200+ daily active users during exam seasons, enabling centralized access to neatly collected and categorized academic resources.
- Designed a scalable backend for document ingestion and management, hosting 1,000+ resources across 200 courses and 10 disciplines, deployed on a DigitalOcean VM with Nginx.
- Sustained and evolved the platform for over 2 years, supporting a 1,600+ student community with ongoing maintenance and admin-driven updates and resource team contributions.

Trovo - Protein Research Platform | *Python, Flask, 3Dmol.js, REST APIs* | *GitHub* | *Live Link* **Apr 2025**
- Built a Hackathon winning full-stack Flask application aggregating protein data from public APIs like UniProt, AlphaFold DB, and ChEMBL, with interactive 3D visualization using 3Dmol.js and a clean web interface.
- Integrated an AI-powered chatbot (Google Gemini) to enable contextual follow-up queries, improving information retrieval and user exploration of biological datasets.

Leadership Experience

GDGoC Organizer **Sep 2025 – present**
Google Developer Groups on Campus, IARE *gdgciare.tech*

- Led a 13-member core team organizing successful technical workshops, speaker sessions, and hackathons, driving consistent student engagement and collaborating with external communities like TensorFlow User Group Hyderabad.
- Scaled community outreach to 1600+ members, popularizing tech and encouraging creative and technical development of students with study jams, quizzes and community project displays.

TEDx Tech Team Member **Feb 2025 – Apr 2025**
TEDxIARE *tedxiare.com*

- Developed the TEDx event website using React, Vite, TypeScript, Framer Motion, and Tailwind for a seamless and dynamic user experience, collaborating with various teams and working with deadlines.
- Built a FastAPI server to handle waitlist form submissions, integrating MongoDB for data storage and deploying on Render, implementing rate limiting and email validation for security.

Skills

Programming Languages: Python, Java, C, JavaScript
Frontend: HTML, CSS, BootStrap, Tailwind, React, Dart, Flutter
Backend/Database: Flask, Jinja2, FastAPI, SQL, MongoDB
Developer Tools: VS Code, Git, GitHub, Figma, N8N

Certifications

CS50x Introduction to the intellectual enterprises of computer science **Nov 2024**
Harvard University *self-paced*
Programming in Java by NPTEL **Jan - Apr 2024**
IIT Kharagpur, NPTEL *12 weeks*