Muhammad Fauzan Zohaib

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Education

Institute of Aeronautical Engineering, Hyderabad, Telangana **Expected Graduation - 2027**
Bachelor of Technology in Computer Science Engineering *CGPA: 8.45 (Till VI. Sem)*

Sri Chaitanya jr College, Hyderabad, Telangana **May 2021 – May 2023**
Intermediate *Percentage: 93.5%*

Global High School, Adilabad, Telangana **May 2021**
S.S.C *CGPA : 10*

Technical Skills

Programming Languages: Python, Java, JavaScript
Frontend: HTML, CSS, React, Tailwind CSS, BootStrap, Dart, Flutter, Streamlit
Backend/Database: MongoDB, SQL, SQLite, Flask, FastAPI, REST APIs
Developer Tools: VS Code, Git, GitHub, Figma
Cloud/DevOps: Google Cloud Platform
AI / Machine Learning: Scikit-learn, Large Language Models (LLMs), Prompt Engineering, AI Evaluation

Research Experience

Comparative Security Evaluation of AI-Generated Authentication Systems **July 2026**
Research Manuscript

- Conducted an empirical study comparing authentication systems generated by GitHub Copilot, Gemini 3.5 Flash, and Composer 2.5 using a standardized prompt and evaluation methodology.
- Evaluated AI-generated authentication systems using 12 authentication security metrics, including password hashing, session management, cookie security, authentication controls, secret management, brute-force protection, and input validation.
- Investigated the strengths and limitations of AI coding assistants in generating production-ready authentication systems, identifying recurring security gaps such as missing rate limiting, account lockout mechanisms, and secure secret management.

Internship

Web Development Intern **May 2025**
TectonixIndia

- Built a full-stack Society Management Web Application to digitize communication between administrators and residents, reducing manual coordination by 65%.
- Designed and implemented role-based authentication, CRUD modules, and secure MySQL-backed APIs using Flask.
- Developed a responsive UI using HTML, CSS, JavaScript, and Jinja, improving accessibility across mobile and desktop devices.
- Optimized database queries and backend routes, improving average response time by 35%.

Projects

Flood-Guard | *Python, Flask, SQL, HTML, CSS, JS* | GitHub **Oct – Nov 2025**

∗ Built a disaster-support web app to help flood-affected users quickly locate nearby shelters, emergency contacts, and relief centers.
∗ Integrated interactive maps and geolocation-based services to display real-time nearby resources.
∗ Developed a chatbot to guide users with emergency procedures and FAQs.
∗ Implemented role-based login for volunteers and NGOs to coordinate relief operations.

Smart City Dashboard | *Python, Flask, HTML, CSS, JavaScript, SQLite* | *GitHub* **Oct - Nov 2025**

∗ Designed and developed a civic issue reporting system allowing users to submit complaints with images and geolocation.
∗ Implemented automated issue classification to prioritize complaints, reducing manual triage time by 50%.
∗ Built interactive dashboards and city heatmaps for data visualization and trend analysis.
∗ Enabled transparency by allowing citizens to track complaint status in real time.

GHS (Global High School) | *Python, Flask, HTML, CSS, JavaScript, SQL* | *GitHub* | *Live Link* **Aug 2025**

* Developed a role-based school management platform enabling faculty-only content publishing and student access to announcements and resources.
* Built a PYQP (Previous Year Question Papers) upload system, increasing resource availability for students by 3×
* Implemented secure login, form validation, and database-backed content management.
* Designed responsive student-facing pages for faculty profiles, feedback, and grievance submission.

Certifications

Google Cloud Study Jams (6 skillbadges on Google Skills Boost Platform) **Oct-Nov 2025**
GDGC IARE *1 month*

Web Development **Aug 2025**
SoloLearn *self-paced*

Leadership Experience

Head Event Organizer — Consortium 2K25 (National Tech Fest) **Oct 2025**

- Led a 10-member team to organize a national-level CSE event with 80+ teams and 3,000+ total participants.
- Managed end-to-end execution including planning, promotions, sponsorship coordination, and on-ground logistics.
- Increased event participation by 40% through targeted social media promotions and inter-college outreach.
- Recognized as one of the top-performing events of the fest based on participant feedback.