

FAHIM RAZA

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Profile Summary

Computer Science undergraduate with practical experience in building full-stack and backend applications and working with databases. Gained hands-on exposure through academic projects such as Share Space and Prompt refinement System. Holds certifications in Python (IBM) and Computer Networks (NPTEL) and demonstrates a strong understanding of APIs, authentication concepts, and basic system design. Motivated to continuously learn, solve problems, and contribute effectively within collaborative software development environments.

Education

Bachelor of Technology in Computer Science and Engineering <i>Parul University, Vadodara, Gujarat</i>	2022-2026
Senior Secondary School (12th Grade) <i>Brainwings Academy CBSE</i>	2022
Secondary School (10th Grade) <i>Brainwings Academy CBSE</i>	2020

Technical Skills

- **Programming Languages:** Python, C++, Basic Java
- **Frameworks & Libraries:** React and Angular
- **Networking & Protocols:** Routing, Switching, TCP/IP, Subnetting, IP Connectivity, Network Troubleshooting
- **Web Development:** HTML, CSS, JavaScript, React.js
- **Database Management:** MySQL, MongoDB
- **Network Security:** Firewalls, Authentication & Access Control, Basic Vulnerability Awareness
- **IT Support:** Troubleshooting, Hardware/Software Maintenance
- **Version Control:** Git & GitHub (CI/CD)

Certification

- IBM Python Certification
- CPA: Programming Essentials in C++
- Computer Networks and Internet Protocol (NPTEL, Jan-Apr 2024)

Projects

- **Multi-Modal Prompt Refinement System**
Sophisticated data orchestration system that processes diverse input modalities including technical specifications, reference images, and natural language to generate standardized, high-fidelity AI prompts. Created a robust extraction pipeline to isolate core functional requirements and technical constraints from unstructured documents while utilizing vision-processing logic to translate visual sketches into actionable aesthetic parameters. Designed a proprietary "Blueprint Schema" to unify disparate data points into a consistent structure, establishing a prioritized "Hierarchy of Truth" to automatically reconcile conflicting information between file types. Integrated an intelligent validation layer to audit prompt completeness, featuring a rejection engine for irrelevant inputs and a discrepancy logging system to flag missing project variables.
- **Share Space**
Full-stack campus marketplace using the MERN stack to enable students to buy and sell second-hand products securely. Integrated JWT-based authentication for verified user access and engineered a dynamic listing system. Built a responsive React interface with advanced search and filtering, supported by a Node.js/Express backend and MongoDB for real-time inventory tracking. Established role-based dashboards for users to manage sales and an admin panel for platform moderation and community safety.

Relevant Experience

Academic & Practical Exposure

- Practiced system setup, software configuration, and troubleshooting while working on development environments
- Provided technical support to 5–10 peers by resolving common system and software issues.
- Collaborated with a team of 3–4 peers on academic projects, improving coordination and delivery.