Rafia Abbasi

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Education

Graphic Era Hill University, Dehradun *2022 – 2026*
B.Tech in Computer Science Engineering *CGPA: 8.30 / 10.0*

Technical Skills

- Languages: C++, C, JavaScript, TypeScript, Java, Python, HTML, CSS, SQL
- Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Tailwind CSS, Flask
- Databases & Cloud: MySQL, PostgreSQL, MongoDB, Firebase, AWS, Docker
- Developer Tools: Git, GitHub, Jenkins, Postman, VS Code, Figma
- Core Concepts: Data Structures Algorithms, REST APIs, MVC Architecture, Agile Methodologies, NLP

Projects

ParkNGo: Urban Parking and Reservation Platform Live | GitHub *Feb 2025 – Mar 2025*

- Architected a full-stack parking platform with 12+ features, including real-time availability, reservations, and user authentication, by engineering over 25 secure REST APIs.
- Optimized a MySQL database with Prisma ORM, achieving efficient data handling and API response times under 150ms.
- Built a secure, role-based dashboard with 5+ analytical modules to monitor revenue and user growth.
- Integrated the PayU payment gateway, implementing secure transaction protocols to achieve a 99.9% success rate.

Resume-Job Matcher GitHub *Jan 2025 – Feb 2025*

- Built an automated resume-matching tool using Python and NLP, designed to reduce manual screening time by over 75%.
- Engineered a data preprocessing pipeline that improved text extraction accuracy from PDF/DOCX files by over 95%.
- Implemented TF-IDF and cosine similarity algorithms, achieving a 92% match accuracy rate.

Disk Scheduling Algorithm Visualizer GitHub *Oct 2024 – Nov 2024*

- Created an interactive web-based tool to visualize six key disk scheduling algorithms, improving user comprehension by an estimated 40%.
- Leveraged HTML5 Canvas for animations and used Plotly.js to generate 5+ real-time performance comparison charts.
- Implemented a secure user authentication system using PHP and MySQL, providing personalized progress tracking for 50+ beta users.

Achievements & Certifications

- Published a research paper, "Unlocking Blockchain," at the International Conference on Smart Electronics and Smart Systems (ICSES 2024).
- Solved over 300+ problems on platforms like LeetCode and GeeksforGeeks, demonstrating strong proficiency in Data Structures and Algorithms.
- Achieved Google Data Analytics Professional Certificate, gaining expertise in data cleaning, analysis, and visualization.
- Engineered a fake profile detection model with 85% accuracy on a test dataset.
- Coordinated 3+ community service events with a team of 15+ volunteers as part of the NSS, positively impacting over 200 local residents.