Srujan Singh Rathod

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PROFILE

Cyber Security enthusiast and Computer Science student with hands-on experience in C, C++, Java, and Python. Strong foundation in problem-solving, data structures, and system-level programming. Passionate about building secure, efficient, and innovative digital solutions. Thrive in collaborative and fast-paced environments with a keen interest in real-world cybersecurity challenges and open-source development.

SKILLS

Hard Skills:

- Proficiency in C, C++, Java, Python
- Data Structures and Algorithms
- Database Management
- Operating Systems
- Cryptography
- Networking

Soft Skills:

- Communication
- Teamwork
- Adaptability
- Attention to Details
- Work Ethics
- Time Management

EDUCATION

B. Tech in Computer Science & Engineering – Cyber Security Nov 2022 - Present
CMR Engineering College, Hyderabad, TG
Relevant Coursework: Object Oriented Programming, Databases, Discrete Math, Data Structures and Algorithms, Operating Systems, Computer Networks, Advance Data Structures and Algorithms

Higher Secondary Education in Math, Physics & Chemistry Aug 2020 – Mar 2022
Kendriya Vidyalaya, Hyderabad, TG
Relevant Coursework: SQL Database Management, Python Programming

Secondary Education Jun 2010 – July 2020
Dayanand Anglo Vedic (DAV) Public School, Hyderabad, TG
Relevant Coursework: HTML, CSS, Basic Web Development

PROJECT WORK

CPU Prime Benchmark Tool (2025)
Description: Developed a cross-platform CLI tool to benchmark CPU performance using prime number calculations in single and multi-core modes. Integrated a difficulty selector and real-time progress bar for user interaction.
Skills Used: Python, Multiprocessing, CLI, `rich` library, Performance Testing
GitHub Repo: https://github.com/srujan-singh/cpu-prime-benchmark

Custom File Integrity Monitoring Tool (2025)
Description: Created a lightweight, real-time file integrity monitoring system with modular design. Focused on education and extensibility, including a CLI version and planned GUI upgrade.
Skills Used: Python, OS-level monitoring, Event-driven programming, Plugin architecture
GitHub Repo: https://github.com/srujan-singh/custom-fim-tool

AI-Driven Energy Forecasting and Smart Grid Management (2024)
Description: Developed an innovative system for predicting energy supply and demand, optimizing renewable energy use with AI-driven LSTM models. Integrated real-time and simulated data for dynamic forecasting, enhancing grid efficiency in smart cities.
Skills Used: TensorFlow, Python, LSTM, AI modeling, Data Visualization

Parking Management System (2022)
Description: Designed and implemented a Python-based parking solution to simplify space management in crowded locations. Integrated a SQL database to track parking slots, manage reservations, and support different vehicle sizes for enhanced user convenience.
Skills Used: Python, SQL, Database Management, Backend Development