

RISHABH JAIN

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Detail-orientated Computer Science Engineer experienced in **Python, Java, and C++** with hands-on experience in **full-stack development, network automation, and ML-based forecasting systems**. Proficient in **Data Structures, REST APIs, Multithreading, and Backend Optimisation**. Strong **communication and teamwork abilities** gained through varied internships and leadership roles.

EDUCATION

G.B. Pant Govt. Engineering College, New Delhi

Jun 2025

B.Tech in Computer Science Engineering

81.4%

- Awarded an annual academic scholarship for two consecutive years in college.

WORK EXPERIENCE

C-DOT, Intern, New Delhi

Jan 2025-Present

- **Automated 4G node configuration** by developing a Python-based tool, **cutting manual effort by 95%**.
- **Enhanced tool performance by ~60%** through multithreading and smart caching; integrated Excel-driven validation to ensure 100% accurate input handling.
- **Improved reliability and maintainability** by introducing real-time error alerts and a modular architecture reduced runtime failures by ~70%.
- **Built and deployed a full-stack MERN dashboard** for real-time monitoring of deployment and automation across multiple zones.
- **Secured platform access** with Role-Based Access Control (RBAC), JWT authentication, and bcrypt hashing, ensuring enterprise-grade access management.
- **Designed dynamic dashboards** with real-time status updates and version control, increasing team traceability and operational visibility by ~80%

Grid Controller of India Ltd., Intern, New Delhi

Aug 2024-Nov 2024

- Created a **forecasting system for power usage** using **neural networks and real-time weather data from 615+ stations**.
- **Engineered 7+ impactful features** and applied **advanced preprocessing** to enhance model accuracy and reliability.
- **Visualised consumption trends** with interactive graphs to **support energy planning and cost optimisation**.

Canadian Fellows, Web Developer

Aug 2023-Nov 2023

- **Implemented a modern, SEO-optimised website** for an immigration firm to increase online visibility and lead generation.
- **Added forms and booking tools** to promote user involvement; **assured responsive design across devices**.

Housing and Urban Development Corporation, Intern, New Delhi

Jul 2023-Aug 2023

- Assisted in **improving data centre networks utilising VLAN, BGP, and OSPF**; addressed **connectivity issues for increased uptime**.
- Gained hands-on expertise with **enterprise-grade routers, switches, and infrastructure** maintenance techniques.

The High Vault Security, Web Developer

Feb 2023-June 2023

- **Delivered a responsive and SEO-friendly website** promoting security services, improving client enquiries and engagement.
- **Integrated contact and scheduling features; assured cross-device compatibility** for a smooth user experience.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript, C, C++, SQL
- **Frontend Development:** HTML5, CSS3, JavaScript, Responsive Design)
- **Backend Development:** Node.js (Express), Java (Spring Boot), RESTful APIs, MVC Architecture
- **Database Management:** MySQL, PostgreSQL, MongoDB
- **Networking & Systems:** Linux, TCP/IP, UDP, Socket Programming, Interprocess Communication (IPC)
- **Data & ML:** Machine Learning (Scikit-learn, TensorFlow, PyTorch), Data Structures & Algorithms, Predictive Analytics
- **Other Skills:** Version Control (Git), Agile Development, Unit Testing, Debugging, Performance Optimization

LEADERSHIP EXPERIENCE

IEEE GBPEC Student Chapter, Webmaster

Aug 2023-Dec 2024

- Created and maintained the chapter website, adding event registrations, SEO, and accessibility.

NSS GBPEC, Treasurer

March 2023-Dec 2024

- Managed finances and organised outreach programmes promoting social responsibility.

Innovation and Development Club, Webmaster

June 2022 - May 2023

- Designed project showcase platform and improved user experience across devices