

Snehil Dey

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EDUCATION

Birla Institute of Technology
B.Tech in Computer Science and Engineering

Jun 2022 – Present
CGPA: 8.16

EXPERIENCE

Full Stack Developer Intern

C-DAC, Pune

Aug 2025 – Present

Pune, India

- Developed a **grievance redressal system** integrated with **WAMIS**, automating query routing to relevant authorities.
- Implemented a **priority-based escalation system**, reducing response delays by ~35%.
- Built with **Spring Boot**, **SQL**, **HTML/CSS/JS**, and containerized with **Docker**.

Cybersecurity Intern

SAIL India

May 2025 – Jul 2025

Ranchi, India

- Created a controlled, ethical **custom ransomware simulation** using **Python + Windows API**, executed in **VirtualBox sandbox**.
- Gained hands-on experience in **malware analysis**, **Windows internals**, and **encryption techniques**.
- Demonstrated **prevention strategies and mitigation methods** for ransomware attacks in isolated environments.

SKILLS

Languages: Java, Python, SQL, C++

Frameworks/Tools: Spring Boot, React, Node.js, MongoDB, Power BI, Azure, Docker, Git, VirtualBox

Cybersecurity: Ransomware Simulation (Ethical), Malware Analysis, Windows API, Encryption, OWASP Libraries, Sandbox Environments

Concepts: Data Structures & Algorithms, OOP, DBMS, Machine Learning, Web Security

PROJECTS

Secure File Sharing Platform [GitHub] [Live Demo]

Aug 2025

- Developed a **MERN-based file sharing platform** with **role-based access**, **auto-expiring links**, and **end-to-end encryption**.
- Implemented **JWT authentication** and **multi-user access controls**.
- Enabled secure file management for **20+ concurrent users** during testing.

Real-Time Chat App [GitHub]

Jun 2025 – Jul 2025

- Built a **real-time messaging app** with **MERN + Socket.IO**, supporting **instant delivery** and **live online indicators**.
- Optimized performance using **Redis caching**, reducing fetch time by ~50%.
- Designed a **responsive UI** for mobile and web users.

YouTube Timestamp Keeper (Chrome Extension) [GitHub]

May 2025 – Jun 2025

- Developed a **Chrome extension** to save and manage timestamps for YouTube videos, enhancing learning and content navigation.
- Implemented features for one-click timestamping and organized notes, allowing users to instantly jump to key video moments.
- Engineered with **Manifest V3** and utilized **Chrome's Storage API** for efficient, secure data persistence.

Potato Leaf Disease Detection [GitHub] [Live Demo]

Feb 2025 – Mar 2025

- Developed an **image classifier with CNNs** to detect potato leaf diseases (*Early Blight*, *Late Blight*, *Healthy leaves*) with **>95% accuracy**.
- Built an interactive **Streamlit web app**, enabling farmers to upload leaf images for **instant results**.
- Applied **TensorFlow**, **Keras**, **OpenCV**, **Python** and deployed on **Streamlit Cloud**.
- Improved agricultural disease diagnosis accessibility with a **user-friendly AI tool**.

ACHIEVEMENTS

Solved **300+ problems** on **LeetCode**, **GFG** with **1526 contest rating** (as of June 2025).

Earned **Microsoft Azure Certification (Jun 2025)** [View Badge].