

# 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*

June 2025 – Present  
*Pune, India*

- Developed a grievance redressal system integrated with WAMIS, enabling automated routing of user queries to relevant authorities.
- Implemented a priority-based escalation system that reduced query response delays by ~35%.
- Built using **Spring Boot**, **SQL**, **HTML/CSS/JS**, deployed on **Azure**, and containerized with **Docker**.

**Cybersecurity Intern**  
*SAIL India*

May 2025 – Jul 2025  
*Ranchi, India*

- Created a controlled, ethical **custom ransomware simulation** using **Python** and **Windows API**, deployed in **VirtualBox sandbox** for safe experimentation.
- Gained hands-on experience in **malware creation/analysis**, **Windows internals**, and **encryption techniques**.
- Demonstrated prevention strategies and mitigation methods for ransomware attacks in isolated test 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, Encryption, OWASP Libraries, Sandbox Environments

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

## PROJECTS

**Secure File Sharing Platform** 📄 🔗

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** 🗣️

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**, cutting session fetch time by ~50%.
- Designed a responsive UI for mobile and web users.

**AI-Powered Article Summarizer (Chrome Extension)** 🧠

May 2025 – Jun 2025

- Created a **Chrome extension** to summarize web content using the **Google Gemini API**.
- Delivered context-aware summaries of blogs, articles, and novels in under 2 seconds.
- Built with **Manifest V3**, ensuring security and efficient background processing.

**Potato Leaf Disease Detection** 🥔

Feb 2025 – Apr 2025

- Designed an **ML-powered image classifier** to detect potato plant diseases with >85% accuracy.
- Helped farmers by providing early detection insights for crop protection.

## ACHIEVEMENTS

Solved **250+ problems on LeetCode** with **1526 contest rating** (as of Mar 2025).

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