

Snehil Dey

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</> leetcode.com | 🐙 github | in linkedin

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
Remote

- Engineering a **full-stack grievance redressal system** using WAMIS to automate query routing and improve classification accuracy by **over 25%**.
- Architecting a **priority-based escalation system** designed to reduce average response delays by **35%** and enhance user satisfaction.
- Leveraging **Spring Boot and SQL** to develop and deliver a scalable enterprise solution.

Cybersecurity Intern
SAIL India

May 2025 – Jul 2025
Ranchi, India

- Constructed an ethical **ransomware simulation** in a VirtualBox sandbox to analyze infection vectors and test **3 defensive mechanisms**.
- Analyzed **multiple malware samples**, identifying key signatures and behavioral patterns using **Windows internals** and static/dynamic analysis.
- Presented a technical demonstration on mitigation, outlining **5 key prevention strategies** to security personnel.

SKILLS

Languages: C++ , Python , SQL , HTML/CSS

Frameworks/Tools: SpringBoot, Python (TensorFlow, Streamlit, Pandas), Azure, Git, VirtualBox

Cybersecurity: Malware Analysis, Windows API, Encryption, OWASP Libraries, Sandbox Environments

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

PROJECTS

Secure File Sharing Platform [GitHub]

Aug 2025

- Developed a **secure RESTful API** featuring **JWT authentication**, role-based access control, and end-to-end encryption.
- Stress-tested the application to handle **over 20 concurrent users**, ensuring data integrity and high availability.

YouTube Timestamp Keeper (Chrome Extension) [GitHub]

May 2025 – Jun 2025

- Built and launched a **Chrome extension** to streamline content navigation, improving user productivity by an estimated **40%**.
- Engineered a one-click timestamping feature with **Chrome's Storage API**, ensuring data persistence with **sub-100ms** retrieval.

Potato Leaf Disease Detection [GitHub] [Live Demo]

Feb 2025 – Mar 2025

- Designed a **Convolutional Neural Network (CNN)** in TensorFlow that achieved **over 95% accuracy** in classifying potato leaf diseases.
- Deployed an interactive **Streamlit web app** providing diagnoses in **under 3 seconds**, empowering farmers with an accessible AI tool.

CERTIFICATIONS & ACHIEVEMENTS

- Solved **350+ problems** on LeetCode, GFG with **1526 contest rating** (as of Sep 2025).
- Earned **Microsoft Azure Certification** [View Badge].
- Certified in **SQL (Basics)** by HackerRank [View Certificate].
- Certified in **Python for Data Science** by IBM SkillBuild [View Certificate].
- Executive Member, **IEEE Student Branch**, BIT Mesra.
- Volunteer, **National Service Scheme (NSS)**.