

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

Sep 2025 – Present

Remote

- Engineered a **full-stack grievance redressal system** with WAMIS, automating query routing and improving classification accuracy by **over 25%**.
- Architected a **priority-based escalation system** that slashed average response delays by **35%**, enhancing user satisfaction.
- Leveraged **Spring Boot, SQL, and Docker** to deliver a scalable and containerized 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, Apache Airflow, Pandas, Azure, Docker, Git, VirtualBox

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

Concepts: Data Structures & Algorithms, OOPS, DBMS, Data Warehousing, ETL Pipelines, Machine Learning

PROJECTS

E-commerce ETL Pipeline [GitHub]

Sep 2025

- Developed a **Python ETL pipeline** to process data from PostgreSQL CSVs, loading it into a data warehouse modeled with a **star schema** to optimize analytics.
- Automated the daily batch processing using **Apache Airflow** and containerized all services with **Docker** for streamlined, reproducible deployment.

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 June 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)**.