

# Jaideep Dahiya

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[Leetcode](#) | [LinkedIn](#) | [Github](#) | [Portfolio](#)

## Education

**Indraprastha Institute of Information and Technology**

*Bachelor of Technology in Computer Science and Design*

Delhi, India

(Aug, 2023 - Aug, 2027)

## Experience

### SAG Lab, DRDO (Research Intern)

Guide: Dr. Kuldeep Goyal

(May, 25 - Jun, 25)

- Studied the **Protection Profile** of operating systems under the Common Criteria framework.
- Explored **symmetric key cryptography**, including **AES** and **DES**, along with finite fields and pseudorandom number generators.
- Gained a strong foundation in security evaluation standards and core encryption principles.

## Projects

### AirEdge || [Github](#)

(Mar, 25 - Apr, 25)

Guide: Dr. Kalpana Shankhwar

- Built AirEdge, a **gesture-based** air hockey game that turns any object into a controller using camera-based vision tracking and projection mapping.
- Implemented real-time object tracking using colour histograms, Gabor filters, contour analysis, and a Kalman filter for robust interaction.
- Developed a **networked multiplayer** mode with **server-side** physics and synchronisation, and a Pygame-rendered client for seamless gameplay.

### Intrusion Detection System || [Github](#)

(Mar, 25 - Mar, 25)

- Developed a **signature-based** Intrusion Detection System using Python hosted on **Raspberry Pi 4** for real-time threat detection and blocking.
- Integrated threat intelligence feeds for updated attack signatures and optimised performance for lightweight deployment.

### NovaBank || [Github](#)

(Feb, 25 - Apr, 25)

Guide: Dr. Vikram Goyal

- Developed a desktop banking application using **JavaFX** with features like login, balance check, transfers, and transaction history.
- Integrated **MySQL** to securely manage user data, accounts, and transactions.

## Technical Skills

- Languages:** C/C++, Java, Python, SQL
- Tools & Technologies:** Vim, NeoVim, Wireshark, tcpdump, nmap, GitHub, Figma, Miro  
LibGDX, MySQL, VM, UTM, Raspberry Pi, Linux, Arduino Uno
- Expertise Area:** Applied Cryptography, OS, DBMS, DSA, OOP

## Awards and Achievements

- Google Professional Cybersecurity Certificate
- 250+** questions on platforms like **LeetCode**, **Codeforces** and **Coding Ninjas**
- A Grade** in Advanced Programming