Sneha Layek

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# Skills

* **Languages**: Python, C, C++, JavaScript
* **Web Technologies**: HTML and CSS.
* **Tools/Platforms**: MySQL, Figma, Canva, Sketch Autopsy, FTK imager, Wireshark, Linux OS
* **Soft Skills**: Analytical Thinking, Collaboration, Flexibility & Quick Learning, Goal Oriented

# Training

**Trainee, Coding Spoon Platform  
 LPU Summer Training Jun ’24-Aug ‘24**

* Tackled 250+ advanced DSA challenges across LeetCode and GeeksforGeeks, improving logic precision by 30%.
* Devised a C++ lodging system curating invoices, guest dossiers, and reservations—60% optimized.
* Enhanced algorithmic fluency, decreasing problem-solving time from 25 to 15 minutes (40% faster).

# Project

**HOSPITAL SYSTEM USER INTERFACE DESIGN (FIGMA**) **MAY,2025**

* Accelerated patient interaction via intuitive layouts and frictionless appointment booking workflows.
* Consolidated patient records into streamlined, accessible modules for faster navigation of health data.
* Refined clinical task flows by eliminating redundancies, enhancing overall operational throughput.
* [**FIGMA DESIGN LINK**](https://www.figma.com/design/uvD70kO4nOOeSr4NqtbXH9/Hospital-Management-interface?node-id=0-1&p=f&t=NUTZhmQRRh6UNBDA-0)

**MOVIE TICKET BOOKING INTERFACE (FIGMA) JAN,2025**

* Employed visual flow and typographic rhythm to drive focus and reduce user hesitation during booking.
* Orchestrated a fluid UI framework adaptable to eclectic devices and dimensional constraints.
* Embedded layered interfaces enabling cinematic slot picks, patron flow, and fiscal clearance.
* Enabled touch-friendly gestures and coherent layouts for inclusive, demographic-wide interaction.
* [**FIGMA DESIGN LINK**](https://www.figma.com/design/XRBdBgNDjq5sdDLL2nHX0J/Movie-Ticket-Booking-App?t=Zu485YSqXWwL8Mer-0)

# **HOTEL MANAGEMENT SYSTEM (C++, DSA) DEC,2024**

# Forged a terminal-based tool for habitat allocation, user dossiers, and revenue insights.

# Leveraged OOP principles to manage reservation logic and monitor guest interactions.

# Facilitated real-time event handling for instant booking updates and billing acknowledgments.

# Incorporated file handling to persist guest data and transactional footprints across sessions.

# [**GitHub LINK**](https://github.com/snehalayek93/Hotel-Management/blob/main/HotelManagement.c%2B%2B)

# Certificates

* Cloud Computing Certification   
  NPTEL, IIT Kharagpur 24 Aug-2024
* Hacker Rank Certified in Python 20 Jul -2024
* Microsoft Cybersecurity Analyst (Coursera) 23 Jun-2024
* CompTIA LINUX + by CYBRARY 10 Feb -2024

ACHIVEMENTS

* Code forces Expert, Contest Rating: 1366, ranked in the top percentage of global participants.
* Leet Code Contest Rating: 1463, Mastered over 133 algorithmic problems.
* Geeks for Geeks Contributors Addressed 228+ Data Structures and Algorithms problems.
* Earned the NPTEL Silver Elite Badge in Cloud Computing, ranking in the top percentage of candidates.

# Education

**Lovely Professional University**  Punjab, India

### Bachelor of Technology - Computer Science and Engineering; **CGPA: 6.71** Since August 2022

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**Usha Gram Girl’s Hight Secondary School** Asansol, West Bengal

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### Intermediate; **Percentage: 65%** April 2020 - June 2022

**Usha Gram Girl’s Hight Secondary School** Asansol, West Bengal

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### Matriculation; **Percentage: 86%** April 2019 - March 2020