Subrat Upadhyay

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SUMMARY

Motivated and adaptable Computer Science Engineering student with a passion for software development, emerging technologies, and problem-solving. Committed to personal growth while contributing meaningfully to organizational success. Driven by the desire to solve complex challenges, innovate, and create impactful solutions.

WORK EXPERIENCE

Sasken Technologies Ltd. | *Summer Intern*   *June 2025 – July 2025*

- Created Secure Chat System using mTLS - a secure, real-time chat application in C++17 on Linux, utilizing Mutual TLS for authentication.
- Implemented two-way certificate authentication and ensured end-to-end encrypted communication using OpenSSL.
- Developed a multithreaded server to support multiple simultaneous clients with secure message exchange.
- Worked with Linux tools and shell scripting to streamline development and testing.

PROJECTS

AeroFlow | *C++*

- Developed an Airline Management System in C++ using OOP concepts.
- Implemented flight booking, cancellation, and ticket verification features.
- Designed a user-friendly menu-driven interface for easy navigation.

Smart Parking and Billing System | *Python, Sql, Html, Css*

- Implemented a secure admin login using SHA-256 password hashing for authentication and data integrity.
- Designed a dynamic HTML/CSS receipt generator for printable parking bills with real-time tax calculations.
- Integrated database-driven record management to track vehicles, available slots, and generate reports efficiently.
- Enhanced project usability through a menu-driven CLI interface with browser-integrated bill generation.

TECHNICAL SKILLS

Languages: C, C++, Python

Web Technologies: HTML5, CSS3

Core CS Concepts: Basic Data Structures and Algorithms, Object Oriented Programming

Database: MySql, Oracle

Tools and Platforms: VS Code, Google Colab, GitHub, Microsoft Office, Windows, Linux

CERTIFICATIONS

SQL(Intermediate) | *HackerRank*   *October 2025*

Introduction to Cyber Security | *Cisco Networking Academy*   *August 2024*

Emerging Technologies (AI and Cloud) | *Edunet Foundation*   *June 2024*

EDUCATION

C.V. Raman Global University   Bhubaneswar, Odisha
Bachelors Of Technology in Computer Science and Engineering,   *Currently Pursuing*

Sai Higher Secondary School   Baripada, Odisha
Senior Secondary High (Class XII)   *2020 – 2022*

TPS DAV Public School   Baharagora, Jharkhand
Matriculation (Class X)   *Passout - 2020*