Sukhmandeep Singh

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SUMMARY

A passionate and curious Computer Science Engineering student (CSE '27) at Chandigarh University with hands-on experience in Java, C/C++, Python, HTML, CSS, and Oracle SQL. I specialize in cybersecurity practices, full-stack development, and AI-driven applications, with strong foundations in data structures, algorithms, and system architecture. Proficient with tools like Burp Suite, Nmap, Shodan, and Wireshark, I combine technical skill with creative thinking—building everything from secure Java-SQL desktop apps to visually engaging, AI-powered web interfaces. With multiple hackathon wins, a team-first mindset, and an eye for thoughtful design, I bring originality, optimism, and a problem-solving spirit to every challenge I take on.

TECHNICAL SKILLS

- **Programming Languages:** Java, C/C++, Python, PL/SQL, HTML5, CSS3.
- **Software Applications:** AutoCAD, MySQL, Visual Studio, Oracle XE, Canva, Linux, Microsoft 365, IntelliJ, Git, PyCharm, Google Colab, Unity, Arduino IDE, VMWare, Virtual Box.
- **Coursework:** Database Management Systems, Data Structures & Algorithms, Object-Oriented Programming, Linux fundamentals.

PROJECTS

Framed By Power, Judged By Data | *Python, GPT APIs, Wikidata, Historial AI tool* ***May 2025***

Developed an AI-powered tool that analyzes historical figures through a neutral, data-driven lens. The system combines user input with GPT-generated perspectives and real-time Wikidata parsing to offer unbiased second opinions. Designed to highlight ethical gray areas in leadership using structured, multi-phase analysis. Currently being adapted into a responsive web app with a modern, frosted-glass UI..

Sorting Visualizer | *C++, SFML, Data Structures & Algorithms, Graphical Representation* ***Sept 2024***

Developed an interactive sorting visualizer to represent sorting algorithms such as Bubble Sort, Merge Sort, and Quick Sort graphically. Used SFML (Simple and Fast Multimedia Library) in C++ to render real-time visual animations for algorithmic steps. Focused on clarity and smooth performance to aid algorithm comprehension through step-by-step graphical feedback. Enhanced user experience by maintaining a consistent output format while integrating image-based visual elements.

College Management System | *Java, Oracle SQL, Swing GUI, JDBC, Relational Database Design* ***Jan 2025***

Built a desktop application that retrieves and displays student course details based on name input, using Java Swing for the interface and Oracle SQL for backend data. Designed a normalized relational database structure with Students, Courses, Enrollments, and CourseTags tables. Established JDBC connectivity, implemented dynamic query handling, and ensured real-time data retrieval through user-friendly input forms. Focused on clean UI/UX and robust backend logic.

PROFESSIONAL SKILLS

Leadership | Disciplined | Curious | Creative Decision Making | Adaptable | Growth Oriented Mindset

ACADEMIC ACHIEVEMENTS AND CERTIFICATIONS

- Research paper accepted in Microsoft CMT conference
- 6 weeks internship at Intel Inc. & Design Thinking
- 1 month web development internship at Unified Mentor
- 3 Star Badges in C, C++ and Python on HackerRank
- Certifications of Team Skills & Design Thinking
- Coursera Certifications in DBMS & Statistics

EXTRA-CURRICULAR AND CO-CURRICULAR ACHIEVEMENTS

- CADMANIA: AutoCAD Competition, achieved 4th rank
- HackMatrix Hackathon by IIT Patna on Unstop, secured 7th Rank
- Created a web based self portfolio using web development tools
- Participated in Zinnovatia 2.0: The Largest Hackathon by Chandigarh University.
- Participated in CodeRelay: A LeetCode Competition.

EDUCATION

Bachelor of Engineering in Computer Science (BE-CSE) | **Chandigarh University**	CGPA: 8.42	2023-2027
Intermediate | **Government Senior Secondary School, Purkhali** | Punjab, Rupnagar	Marks: 93%	2022-2023
Matriculation | **Netaji Model School, Rupnagar** |Rupnagar, Punjab	Marks: 82%	2020-2021