# SUNIL SINGH

CHANDIGARH , IN | P: +91-9876559541 | [Email](Email)| [Github](Github)

## EDUCATION

**PANJAB UNIVERSITY**                                                                   Chandigarh, IN
Bachelor of Engineering                                                              Expected July 2026
Major in Computer Science and Engineering -

## PROJECTS

Real-Time Chat Application | [Github](Github)                                              March 2025
- **Built** a real-time chat application using **Spring Boot, WebSockets, STOMP, and SockJS** for instant messaging.
- **Implemented** WebSocket communication with STOMP for seamless real-time updates and live chat functionality
- **Integrated** Bootstrap 5 for a responsive and user-friendly interface with auto-reconnect for enhanced reliability..
- **Designed** WebSocket API endpoints for efficient message handling and subscription management.
- **Planned** future enhancements, including user authentication, message history, and advanced UI/UX customization.

Spring Boot CRUD Application |[Github](Github)                                                  feb 2025
- **Built** a CRUD application for managing employee records using **Spring Boot**, **Spring Data JPA**, and **RESTful APIs**.
- I**mplemented** robust database operations with **MySQL** or **H2**, ensuring flexibility and seamless integration.
- **Developed** comprehensive API endpoints for creating, reading, updating, and deleting employee data.
- **Enhanced** maintainability with modular code architecture and detailed documentation.

**Java Socket File Transfer System  |**[Github](Github)
- **Developed** a client-server communication system using **Java Socket Programming** for messaging and secure file transfer.
- **Implemented** basic and advanced features, including multi-threaded connections supporting 10+ concurrent clients.
- **Designed** file upload and download capabilities with validation, error handling, and secure file operations.
- **Ensured** robustness with features like timeout management, validation checks, and file size restrictions.

## ACTIVITIES

**SIH|**                                                                             CHANDIGARH, IN
4TH PLACE OUT OF 20+ TEAMS in 12 HRS HACKATHON                                      20th NOV 2024
- Developed an **Applicant Tracking System (ATS)** using **Gemini** to **streamline** hiring by analyzing job descriptions and resumes.
- Implemented features such as job description match evaluation, missing keyword identification, and automatic profile summaries.

**ResearchAcceptance  & Presentation**                                                   5th Feb 2025
- **Title: Predictive Model for User Behavior on E-Commerce Platforms**
- **Conference:  CEEIT 2025, Bali, Indonesia**
- **Contribution:** Developed a time series-based ML model to analyze and forecast e-commerce user behavior.

## SKILLS

**LANGUAGES**: C | C++ | HTML | CSS | JAVA| SQL | PYTHON |
**FRAMEWORKS AND TECHNOLOGIES**: BeautifulSoup4 | Requests | | TailwindCss | SpringBoot | XAMPP|Pandas|JSON.
**SUBJECTS** : Data Structures & Algorithms | Analysis and Design of Algorithms | Operating Systems | Data Communication & Networks | Software Engineering | Object-Oriented Programming.
**Tools & Extras:** Git | GitHub | Linux | Problem-Solving | Teamwork | VS Code | Postman |IntelliJ
**Certifications :**  Participate at Smart India Hackathon , Participate at Ideathon