SUNIL SINGH

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EDUCATION

PANJAB UNIVERSITY   Chandigarh, IN
Bachelor of Engineering   Expected July 2026
Major in Computer Science and Engineering
Relevant Coursework: Software Engineering | Operating Systems | Algorithms | Artificial Intelligence | Computer Network

PROJECTS

Shrinfy – URL Shortener with Analytics|[Github] |[Live]
- Built **Shrinfy**, a secure URL shortener using **Spring Boot** (backend on **Azure App Service**) and **React + Tailwind CSS** frontend.
- Implemented **JWT authentication**, REST APIs, and **MySQL** database for managing short links and users..
- Added **click analytics with Chart.js**, showing total and per-link engagement.
- Developed a **responsive UI** with protected routes and intuitive dashboards.

GennieReply - AI Email Writer | [Github]| [Live]
- Developed an AI-powered Email Assistant using **Spring Boot** and **Gemini** providing auto-generated professional replies.
- Built a Chrome Extension that injects an "**AI Reply**" button directly into Gmail & Outlook to streamline user workflows.
- Containerized the backend with **Docker**, deployed on Azure App Service with secure environment variable management.

Real-Time Chat Application | [Github]
- **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.

ACTIVITIES

- Active member of ACM student chapter
- Published article "Data-Driven Solutions for Traffic Congestion" on Insights2Techinfo
- Paper accepted at IEEE GEM 2025: "Predictive User Engagement Modeling Using Time Series Analysis for Interactive Media and Gaming".

SKILLS

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