

Susparsh Jakhmola

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Education

Graphic Era Hill University B.Tech in Computer Science and Engineering (CGPA: 9.40)	Dehradun, Uttarakhand 2023 – Present
The Himalayan Public School Class 12 th ISC (90.0%)	Dehradun, Uttarakhand 2023
The Himalayan Public School Class 10 th ICSE (97.3%)	Dehradun, Uttarakhand 2021

Projects

HyperGuard: Real-Time Intrusion Detection and Automated Threat Prevention	Flask, Redis, Node.js, Chart.js, Socket.IO, WSL
<ul style="list-style-type: none">Built a lightweight proxy system to detect and block DDoS and brute-force attacks.Used Redis for rate-limiting and IP blacklisting with low-latency performance.Created a live dashboard for logs, system usage, and threat metrics.Developed attack simulation tools and admin override features.	
TurboSpell: High-Speed Spell Correction Using Edit Distance	JavaScript, Node.js, Python
<ul style="list-style-type: none">Implemented Levenshtein Edit Distance with dynamic programming.Enhanced performance using Trie and BK-tree data structures.Built CLI and web UI for spell correction interaction.	
Automated Attendance Management System	HTML, CSS, JavaScript, Firebase
<ul style="list-style-type: none">Developed a web-based system to mark, store, and track student attendance securely.Used Firebase Realtime Database for storing attendance records with live syncing.Designed a responsive UI for teachers to log in, scan QR codes, and view reports.Enabled automatic time-stamping and ensured accuracy without manual data entry.	

Technical Skills

- Languages:** C, C++, HTML, CSS, Java, JavaScript, Python
- Developer Tools:** Git, Jenkins, VS Code, Firebase Console
- Frameworks/Technologies:** AWS, Flask, Redis, Node.js, Socket.IO, Chart.js, MongoDB, Firebase
- Coursework:** Data Structures, DAA, Cloud Computing, Cybersecurity, Cryptography

Certifications

- Google Cloud Computing Foundations – NPTEL (2024)
- Edge Computing – NPTEL (2025)
- Cloud Engineer (SysOps) – AWS (2025)