

Shreyas Mahajan

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EDUCATION

Thapar Institute of Engineering and Technology, Patiala

Bachelor of Technology in Computer Science and Engineering / CGPA: 8.65

Aug 2023 – Aug 2027

Patiala, Punjab

WORK EXPERIENCE

Zyber - Full Stack Developer

Mar 2026 – Present

- Full-stack real-time social platform (**180+ endpoints**, **68K LOC**), featuring chat, **P2P VoIP calling**, with CI/CD pipelines and Dockerized AWS infrastructure.
- Built a scalable real-time communication and caching layer using WebSockets, WebRTC, TURN servers, Bloom filters, and TTL-based presence, supporting **15000+ users**.

LibSSH - Open Source Contributor

Jan 2026 – Mar 2026

- Merged **8 PRs** contributing to integrate **OpenSSH** ping-pong message obfuscation (1200+ LOC).
- Added **LibreSSL** support and test coverage across **41+** build configurations for **cross-crypto** compatibility.

Vue360 Infra - Backend Developer

Aug 2025 – Dec 2025

- Engineered **33 RESTful APIs** using Go for secure authentication and authorization workflows.
- Backend system deployed on LAN infrastructure, serving **5,000+** users with role-based access control.

PROJECTS

Syrinx | Docker, Linux, Golang, Godot | [Link](#)

- Developed a real-time CTF platform using **WebSockets** and **WebRTC**, enabling low-latency bidirectional communication for **300+** participants.
- Created **28** CTF challenges focused on privilege escalation, cron-based persistence, JWT, stack canary, race conditions and reverse engineering.

SQL Query Engine | C++, MySQL, File Handling, Query Processing | [Link](#)

- Engineered a SQL query parser in C++ that processed **2,000+** SQL commands per minute, enabling efficient **CRUD** operations and reducing database interaction latency by **40%**.
- Designed and implemented a secure **SQL query parser** following **OWASP TOP 10** guidelines, preventing SQL injection attacks and unauthorized access.

Recruitment Evaluation System | Node.js, MongoDB, OpenCV, React, Cloudinary, Redis

- A scalable evaluation portal, supporting **1,400+** registered users and **400** concurrent participants without performance degradation.
- Optimized system performance by implementing Redis caching, reducing latency by **60%**, and efficiently storing **60,000+** images on Cloudinary.

ACHIEVEMENTS & CERTIFICATIONS

Bsides Ahmedabad 2025 | Attendee | [Certificate](#)

Sep 2025

IPA-LABS HackingBuddyGPT | Security Contributor

Aug 2025

LeetCode Bug Bounty | P2 Broken Access Control and P3 Race Condition | [Writeup](#)

May 2025

Hindustan Times Bug Bounty | P3 IDOR | [Writeup](#)

Dec 2024

Cisco Endpoint Security | Securing endpoints, malware defense, and access control | [Certificate](#)

Jan 2024

Hack OWASP - Winner | Winner among 2000+ participants

Oct 2023

SKILLS

Programming Languages: Python, C++, C, JavaScript, SQL, Golang

Technologies & Platforms: Node.js, Express.js, FastAPI, Django, Flask, PostgreSQL, MongoDB, MySQL, Redis

Developer Tools & DevOps: Docker, Kubernetes, CI/CD, Git, Linux, NGINX, GCP

Security: Burp Suite, Nmap, Wireshark, Metasploit, Snort, SQLMap

Soft Skills: Leadership, Teamwork, Collaboration, Formal Presentation