

# Aayush Sharma

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## PROFILE SUMMARY

- Full-stack developer experienced in building scalable applications and optimizing backend performance using caching and real-time technologies.
- Proficient in data structures, algorithms, and software engineering best practices through academic projects
- Skilled in developing user-focused web applications with modern frameworks and cloud tools.

## EDUCATION

### Chitkara University

Bachelor of Engineering in Computer Science and Engineering

Himachal Pradesh, Solan

Aug. 2023 – Present

## PROJECTS

### EventSphere | *ExpressJS, ReactJS, NodeJS, TypeScript, PostgreSQL (Prisma), Redis, Socket.io, Docker* [demo](#)

- Designed and developed a location-based event hosting platform using Redis Geo commands and interactive maps, enabling event discovery within a 1–50 km radius.
- Reduced API response times from 800ms to under 50ms in test environments by implementing Redis caching for geospatial and API data.
- Architected real-time infrastructure with Socket.io and Redis Pub/Sub, designed to scale for 500+ concurrent users with instant notifications and live dashboards.
- Implemented a 3-tier, role-based rate limiting system (50–500 requests/15min) to prevent brute-force attacks and ensure system stability under peak load scenarios.

### ChooseLyf | *React.js, Redux Toolkit, Node.js, Express.js, MongoDB (Mongoose), Leaflet.js, Ant Design*

- Built a healthcare appointment system with 25+ endpoints, enabling patients to schedule and doctors to manage requests efficiently.
- Developed a radius-based doctor discovery feature using MongoDB geospatial queries and Leaflet.js maps, improving search efficiency by 40%.
- Delivered a notification and dashboard system with Redux Toolkit and Ant Design, providing timely updates for appointments and system events.

### Dream Nest | *MongoDB (Mongoose), Node.js, Express.js, React, GitHub*

- Built a real estate platform for property listings and inquiries, optimizing MongoDB Atlas queries to reduce response times by 40%.
- Enabled real-time property updates and notifications, significantly boosting user engagement and satisfaction.

## KEY ACHIEVEMENTS

### Fourth Place, HackExpo Cybersecurity Competition

Chitkara University

Dec 2024

Baddi, H.P

- Secured 4th position out of 50 teams in a cybersecurity competition, achieving a total score of 890 points.
- Collaborated with a 3-member team to solve 10+ cybersecurity problems using real-world security tools and techniques.
- Gained hands-on experience in solving cybersecurity problems under time constraints.

## TECHNICAL SKILLS

**Languages:** C/C++, Java, Python, SQL, JavaScript, TypeScript, HTML/CSS

**Frameworks:** React.js, Node.js, Tailwind CSS, Bootstrap, Express.js, Next.js, Leaflet.js

**Databases & ORM:** PostgreSQL (Prisma), MongoDB (Mongoose)

**Caching & Real-Time:** Redis, Socket.io, WebSockets

**Developer Tools:** Git, GitHub, VS Code, MongoDB Compass, Postman, Docker, Nodemailer