

Aayush Sharma

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PROFILE SUMMARY

- Full-stack developer with expertise in building scalable applications, specializing in performance optimization through Redis caching, real-time systems with Socket.io, and microservices architecture.
- Strong foundation in data structures and algorithms (DSA) with 350+ LeetCode problems solved, applying principles to architect efficient backend solutions.

EDUCATION

Chitkara University Himachal Pradesh, Solan
Bachelor of Engineering in Computer Science and Engineering *Aug 2023 – Present*

PROJECTS

EventSphere | *Express.js, React.js, Node.js, TypeScript, PostgreSQL, Redis, Socket.io, Docker* [demo](#)

- Designed location-based event hosting platform using Redis Geo commands with interactive map visualization, enabling event discovery within 1–50 km radius.
- Reduced application programming interface (API) response times from 800ms to under 50ms through Redis caching for geospatial queries.
- Architected real-time infrastructure with Socket.io and Redis Publish-Subscribe (Pub/Sub) to handle 500+ concurrent users with instant notifications.
- Implemented 3-tier role-based rate limiting (50–500 requests/15min) with JSON Web Token (JWT) authentication to prevent brute-force attacks.

Siftly | *FastAPI, Express.js, TypeScript, PostgreSQL, Redis, Google Gemini API, Docker* [demo](#)

- Built artificial intelligence (AI) microservice integrating Google Gemini, Groq, and HuggingFace APIs with automatic failover and exponential backoff, achieving 92% parsing accuracy.
- Architected worker pool system with parsing and matching workers consuming Redis queues, implementing graceful shutdown and distributed tracing.
- Developed batch matching engine processing 100+ resume–job comparisons using weighted scoring and large language model (LLM) insights, reducing manual screening time.

ChooseLyf | *React.js, Redux Toolkit, Node.js, Express.js, MongoDB, Leaflet.js, Ant Design*

- Built healthcare appointment system with 25+ RESTful API endpoints, integrating MongoDB geospatial indexing for radius-based doctor discovery.
- Developed real-time dashboards using Redux Toolkit state management, improving scheduling efficiency by 40%.
- Delivered notification system with Redux Toolkit and Ant Design providing updates for appointments, reminders, and cancellations.

KEY ACHIEVEMENTS

LeetCode Problem Solving Oct 2024 – Present
Chitkara University *Baddi, H.P*

- Solved 350+ problems maintaining 100+ day streak, focusing on dynamic programming, graph algorithms, and system design patterns.

Fourth Place, HackExpo Cybersecurity Competition Dec 2024
Chitkara University *Baddi, H.P*

- Secured 4th position out of 50 teams with 890 points, solving 10+ challenges in network security, cryptography, and vulnerability exploitation.

TECHNICAL SKILLS

Languages: C/C++, Java, Python, Structured Query Language (SQL), JavaScript, TypeScript, HTML/CSS
Frameworks and Libraries: React.js, Node.js, Express.js, Next.js, Tailwind CSS, Bootstrap, Leaflet.js, Socket.io
Databases and Tools: PostgreSQL (Prisma), MongoDB (Mongoose), Redis, WebSockets
Developer Tools: Git, GitHub, VS Code, Docker, Postman, MongoDB Compass, Nodemailer