

AANSH MALHOTRA

Amritsar, Punjab

☎ +91-7973335859 ✉ aanshmalhotra49@gmail.com in [LinkedIn](#)  [GitHub](#)  [Portfolio](#) </> [LeetCode](#)

SUMMARY

Computer Science undergraduate skilled in **Full-Stack Development**, building scalable web applications, real-time systems, and microservices using technologies such as Docker, Redis, Apache Kafka, and AI integrations. Seeking a Software Development internship to contribute to building scalable software systems while strengthening engineering and problem-solving skills.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript

Frontend: Next.js, React.js, Tailwind CSS, Shadcn UI, Context API, Zustand

Backend: Node.js, Express.js, REST APIs, JWT Authentication, Socket.IO

Databases & Caching: MongoDB, Mongoose, PostgreSQL (Neon), Prisma, Redis

Cloud & DevOps: Docker, Docker Compose, Vercel, Render, Cloudinary

Tools & Integrations: Apache Kafka, Google Gemini AI, Razorpay, Twilio, Git, GitHub

EXPERIENCE

GirlScript Summer of Code

July 2025 – October 2025

(Tech Contributor)

Remote

- Merged **39 pull requests** across multiple open-source repositories, delivering new features, resolving bugs, and improving overall project stability.
- Implemented features including **Certificate Management, Project Gallery, and GitHub API integrations** using React.js, JavaScript, and Tailwind CSS.
- Improved **UI/UX, responsiveness, and accessibility**, enhancing the experience for contributors and end users across community-driven applications.

PROJECTS

Chatify – Real-Time Scalable Chat Application | [GitHub](#) | [Live](#)

- Developed a **production-ready real-time chat application** using the **MERN stack** and **Socket.IO**, enabling instant messaging, user presence tracking, and real-time communication through a **scalable backend architecture**.
- Implemented **backend performance optimizations** including **cursor-based pagination, MongoDB indexing, and Redis-based rate limiting** to improve query efficiency, reduce response latency, and protect APIs from abuse.
- Tech Stack:** MongoDB, Express.js, React.js, Node.js, Socket.IO, Redis, Zustand, JWT, Tailwind CSS

DigiQ – Real-Time B2B Queue Management SaaS | [GitHub](#) | [Live](#)

- Built a **real-time queue management SaaS platform** where organizations (hospitals, banks, clinics) can create and manage service queues digitally, generate virtual tokens, and eliminate physical waiting lines through live queue orchestration.
- Implemented **Socket.io based real-time updates**, customers can join queues remotely, track their live position, view estimated wait times, and receive instant status updates as organizations manage queue progression through a dynamic dashboard.
- Tech Stack:** Next.js, TypeScript, Node.js, Express.js, MongoDB, Mongoose, Socket.io, Zustand, JWT

HireNode – AI-Powered Hiring Platform | [GitHub](#)

- Built an **AI-powered hiring platform** enabling job posting, application tracking, resume management, company onboarding, and subscription-based recruitment through a scalable microservices architecture.
- Designed and developed **five independent microservices** (Auth, User, Job, Payment, and Utils), integrated Google Gemini AI for ATS resume analysis and career recommendations, utilized Apache Kafka for asynchronous email notifications, and containerized the entire system using Docker and Docker Compose.
- Tech Stack:** Next.js, React.js, TypeScript, Node.js, Express.js, PostgreSQL (Neon), Redis, Context API, Apache Kafka, Docker, Google Gemini AI, Cloudinary, Razorpay

EDUCATION

Guru Nanak Dev University, Amritsar

2024 – 2028

B.Tech - Computer Science and Engineering - **CGPA - 7.88**

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