

Abhinav Singh

Software Engineer | Full Stack Developer

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Summary

Computer Science undergraduate specializing in **scalable distributed systems, microservices architecture, and full-stack development**, with 20+ production-grade projects. Proficient in **Java, C++, Data Structures & Algorithms**, with 600+ problems solved across competitive programming platforms. Experienced in building **high-performance, service-oriented systems** aligned with large-scale enterprise engineering demands.

Education

B.Tech, Computer Science & Engineering

2023 – 2027

Specialization: Full Stack Development | UPES, Dehradun

CGPA: 8.02 / 10

Experience

PwC Launchpad Trainee

Feb 2026 – Present

PwC CEDA – Cloud Engineering Launchpad Program (Remote)

- Selected for the **PwC Cloud Engineering Launchpad** – a competitive program covering **GenAI, Prompt Engineering, Python, Modern Data Systems, and Cloud Engineering** fundamentals.
- Currently ranked **#1 in college** and **Rank 14 overall** on the program leaderboard out of all participants.
- Gained hands-on exposure to **cloud-native architectures, scalable distributed systems, and responsive web development**.

Projects

PeerLink – Distributed P2P Microservices File Transfer System | [GitHub](#)

Mar 2026 – Apr 2026

- Architected a **distributed peer-to-peer file transfer system** using **Spring Boot, Spring Cloud, Eureka Service Discovery, API Gateway, and WebRTC**, enabling secure real-time decentralized file sharing.
- Designed and deployed **6+ microservices** – authentication, peer management, file transfer, metadata tracking – with **JWT-based security, RESTful APIs**, and inter-service communication via service registry.
- Built a responsive frontend using **Next.js, TypeScript, and Tailwind CSS** with real-time transfer tracking, peer networking, and group-based file broadcasting across a **Service-Oriented Architecture (SOA)**.

Zetra – Scalable Real-Time Video Calling Platform | [GitHub](#)

Oct 2025 – Nov 2025

- Built a **high-performance real-time video calling platform** using **WebRTC, Next.js, TypeScript, Node.js, and Socket.io**, achieving **<200ms signaling latency** with JWT-based authentication and end-to-end encryption.
- Designed a **scalable backend** with **Express.js, MongoDB Atlas, and MVC architecture**, implementing room management and persistent session storage supporting **100+ concurrent connections**.
- Integrated **REST APIs** for session lifecycle management, call logging, and user state sync across distributed client connections.

Rage AI – Multi-Model AI Chat Platform with External Integrations | [GitHub](#)

Jul 2025 – Sep 2025

- Engineered a **multi-model AI chat platform** using **Next.js 15, TypeScript, and LangChain**, integrating **OpenAI, Google Gemini, and Mistral AI** with real-time streaming responses at **<300ms latency**.
- Built secure **OAuth authentication (NextAuth), PostgreSQL (Neon) with Prisma ORM**, and a **RESTful integration layer** connecting **10+ external services**: GitHub, Gmail, Google Drive, Notion, and Discord.
- Implemented scalable **B2B-style service integrations** via modular API connectors, reflecting enterprise-grade supplier and partner interfacing patterns.

Leadership & Roles

Secretary – OPEN Community

Jan 2025 – Jan 2026

UPES, Dehradun

- Led cross-functional coordination across engineers, mentors, and contributors; drove planning and execution of multiple technical initiatives for 100+ community members.

Certifications & Achievements

- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** – AI/ML Fundamentals, Supervised Learning, LLMs, Generative AI, OCI ML Services, Oracle 23ai
- **FreeCodeCamp – Responsive Web Design Certification** – HTML, CSS, Responsive Design, CSS Animations
- Earned **15 Google Cloud Skillboost badges** and **51 technical skill badges on Microsoft Learn**
- Solved **600+ DSA problems** across **LeetCode, GeeksforGeeks, and Codeforces** – covering Arrays, Trees, Graphs, DP, and System Design patterns

Technical Skills

Programming Languages: Java, C/C++, JavaScript, TypeScript, Python

Data Structures & Algorithms: Arrays, Linked Lists, Trees, Graphs, Dynamic Programming, Sorting, Hashing

Backend & Microservices: Spring Boot, Spring Cloud, Node.js, Express.js, FastAPI, REST APIs, API Gateway, Eureka, JWT

Frontend: ReactJS, Next.js, TailwindCSS, TypeScript, Redux, HTML/CSS

Databases & In-Memory: PostgreSQL, MongoDB, MySQL, Redis, Prisma ORM

Distributed Systems & Cloud: Microservices, SOA, WebRTC, Socket.io, Docker, AWS, Linux

DevOps & Tools: Git, GitHub, Postman, Prometheus, Grafana, Maven, Gradle