

RISHABH AGARWAL

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EDUCATION

Indian Institute of Information Technology Una

Bachelor of Technology in Electronics and Communication Engineering

Expected Graduation : May, 2027

CGPA: 7.66 / 10.00

Relevant Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, OOP, Software Engineering, System Design, Computer Architecture

2023 – Present

Una, Himachal Pradesh

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript, TypeScript, SQL, MATLAB

Frontend: React.js, Next.js, Redux, Context API, HTML5, CSS3, Tailwind CSS, Responsive Design

Backend: Node.js, Express.js, RESTful APIs, Socket.io, Server-Sent Events (SSE), JWT

Generative AI: LLMs, Prompt Engineering, Retrieval-Augmented Generation, AI Agents, Function Calling, Embeddings, Vector Search, LangChain, LangGraph

Databases: MongoDB, MySQL, PostgreSQL, Vector Databases (Pinecone, FAISS)

DevOps & Tools: Git, GitHub, Linux, VS Code, Postman, npm

EXPERIENCE

ModelSuite.ai

Jan. 2026 – May, 2026

Full Stack Developer Intern

- Built and maintained scalable full-stack web applications using React.js, Node.js, Express.js, and MongoDB, contributing to **12+ production features**.
- Developed **15+ RESTful APIs** with JWT-based authentication and role-based access control, improving security across user-facing modules.
- Collaborated with product and design teams in an Agile environment to enhance UI/UX, delivering **20+ sprint tasks** successfully.
- Conducted code reviews and participated in CI/CD deployment workflows using Git, improving code quality and deployment reliability.

PROJECTS

NexArena — Real-Time Badminton Tournament Management Platform

Live | GitHub

- Tech:* React, TypeScript, Tailwind CSS, NestJS, Prisma, PostgreSQL, Socket.IO
- Built a full-stack tournament management platform supporting **3 user roles** (Super Admin, Organizer, Player), enabling tournament creation, player enrollment, and manual match scheduling.
- Developed the scoring engine for badminton tournaments with official **best-of-3, 21-point**, win-by-2, and 30-point cap rules, ensuring accurate live match state synchronization across connected clients.

BloodLink — Real-Time Blood Donation Management System

Live | GitHub

- Tech:* React, Node.js, Express.js, MongoDB, JWT, SSE
- Built a full-stack MERN app for blood donation coordination with **2 user roles** (Hospital, Donor) and a **4-stage request lifecycle** (Pending → Accepted → Visit Scheduled → Completed).
- Developed **10+ RESTful APIs** for auth, blood requests, and notifications; implemented **real-time emergency alerts** via SSE and automated PDF certificate generation with email delivery.

ACHIEVEMENTS

LeetCode: Solved 230+ problems and a total of 400+ questions across all coding platforms.

CodeChef: Maximum rating 1464 (2-Star); participated in multiple rated contests and ranked within the top 30k nationally.

LEADERSHIP

Team Lead — Full Stack Development Project: Led a team of 4 developers to build a MERN-based web application, managing task distribution, code reviews, and deployment.

Organizing Member — Tech Fest: Managed event planning, volunteer coordination, and logistics for coding contests and technical workshops with 500+ participants.