

# Kumar Harsh

+91 9572301358 — kumarharshrivastava@gmail.com — linkedin.com/in/kumar-harsh-b69035242 — github.com/harsh-cse-rgb

## Summary

Full Stack Developer with 1.5+ years of experience and strong foundations in Data Structures and Object-Oriented Programming. Experienced in building scalable, production-grade web applications using React, Next.js, Node.js, Spring Boot, MongoDB, PostgreSQL and AWS. Contributed to high-impact platforms at the Indian Institute of Science (IISc).

## Skills

- **Programming Languages:** Java, TypeScript, JavaScript, Python, C++, SQL
- **Frontend:** React, Next.js, HTML, CSS, Tailwind CSS
- **Backend:** Spring Boot, Node.js, REST APIs, JWT, OAuth, Microservice Architecture (Concepts)
- **Databases:** MongoDB, Amazon DynamoDB, PostgreSQL
- **Cloud & Infrastructure:** AWS (EC2, S3, CloudWatch, Lambda, IAM), Docker, NGINX, CI/CD, Jenkins
- **AI/ML:** LLM-based Systems (OpenAI APIs, Google Gemini APIs), LangChain, RAG
- **Tools:** Git, GitHub, Postman, VS Code, Cursor

## Experience

### Indian Institute of Science (IISc), Bengaluru, India

July 2025 – Present

#### Full Stack Developer

- Led end-to-end development of an international conference management system using Spring Boot, MongoDB, and React, automating registration, abstract submission, and payments for 500+ participants, eliminating 90% manual paperwork.
- Integrated secure multi-currency payments (INR/USD) using Razorpay, implementing webhook verification, transaction validation, and automated email notifications.
- Built a role-based admin dashboard with real-time Google Sheets synchronization via Google Sheets API, improving administrative efficiency by 75%.
- Built a PWA for a 4-day academic conference using Next.js, enabling real-time updates via WebSockets (Socket.io), and offline support, serving 100+ concurrent users with sub-second latency.
- Developed a geospatial analytics platform for CSIRO, mapping 2,500+ industrial plants across India using React, TypeScript, Leaflet, and Supabase, enabling district-level bioenergy analysis.

### Intervue.io, Bengaluru, India

September 2024 – June 2025

#### Software Engineer Intern

- Automated rubric creation using OpenAI APIs in a Node.js environment, reducing manual effort by 75%.
- Engineered 15+ platform features using Next.js, Node.js, and REST APIs, including real-time assessment interfaces, user dashboards, and interview reports.
- Improved AI-driven skill matching accuracy from 65% to 72% through text normalization and synonym mapping.
- Contributed to Agile development cycles, including sprint planning, feature delivery, and code reviews.

## Projects

### RAG-Based Document Chat System — [Live Demo](#)

December 2025

- Built a Retrieval-Augmented Generation (RAG) document chat system using Next.js, LangChain, and Pinecone, enabling users to upload documents and query them conversationally.
- Implemented token-based chunking with overlap and stored 768-dimensional embeddings to ensure accurate semantic retrieval and context-aware responses.

### India Jobs — Job Aggregation Platform — [Live Platform](#)

September 2025 – November 2025

- Engineered India Jobs, a job aggregation platform using Next.js 14, TypeScript, Express.js, and AWS (DynamoDB, S3, EC2) with NGINX reverse proxy, delivering sub-second API responses and serving 1,000+ real users.
- Integrated AI-based resume analysis using LLM APIs to generate job-specific match scores and identify missing skills against each job description, enabling more contextual job recommendations.

## Education

### Chandigarh University

September 2020 - May 2024

#### B.E. in Computer Science and Engineering

## Achievements

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- Led Registration Desk operations at the **STIS-V International Conference**, coordinating volunteers, managing attendee registrations, handling on-site coordination, and resolving real-time issues.
- Secured **3rd** rank in weekly coding competition on GeekForGeeks.
- Secured **1st** rank in the Igebra AI Hackathon.
- Organized and led 5+ events in college as an Event Coordinator.
- **Guinness World Record Participant** – Largest Human waving flag formation, Chandigarh University, Aug 2022

## Certifications

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- React (Infowiz) • AWS Architecting (AWS) • Software Testing (NPTEL) • Generative AI (Google Cloud)