

# Kumar Harsh

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

## Summary

Full Stack Developer with hands-on experience building production-grade systems using Spring Boot, React, Next.js, MongoDB, and AWS. Built and scaled platforms at Indian Institute of Science (IISc) and in startup environments. Strong interest in Generative AI, with experience integrating OpenAI, Google Gemini APIs, and LangChain for intelligent automation.

## Skills

- **Frontend:** React, Next.js, JavaScript, Tailwind CSS
- **Backend:** Java (Spring Boot, Spring Security, WebSockets), Node.js, REST APIs, JWT
- **Databases:** MongoDB, Amazon DynamoDB
- **Cloud & DevOps:** AWS (EC2, S3, CloudFront, CloudWatch), Docker, NGINX
- **Generative AI & Tools:** OpenAI APIs, Google Gemini APIs, LangChain, Prompt Engineering, Cursor AI, Perplexity
- **Programming Languages:** Java, JavaScript, Python

## Experience

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

July 2025 – December 2025

#### 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%.
- Engineered a full-stack Progressive Web App (PWA) for a 4-day academic conference using Next.js and Spring Boot, enabling real-time updates via Spring WebSocket (STOMP).
- Implemented JWT-based authentication using Spring Security and offline functionality via service workers, supporting 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.

### Founder & Developer ([india-jobs.in](#))

September 2025 - Present

#### Founder & Full Stack Engineer (Part-time)

- Founded and built 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 for large-scale job filtering.
- Developed an AI-powered resume analysis system using Google Gemini API to generate instant CV match scores and job recommendations, achieving 99.9% service reliability through robust fallback handling.
- Designed and deployed production-grade AWS infrastructure, optimizing DynamoDB partition keys, configuring CloudFront CDN, CloudWatch monitoring, and horizontal scaling for traffic spikes.

### Freelance ([biharinathorganicfarms.com](#))

November 2025

#### Freelance Full Stack Developer (Part-time)

- Built a full-stack e-commerce platform using Next.js, TypeScript, and MongoDB, implementing product management, cart, order processing, and a admin dashboard.
- Integrated Razorpay payments (Online & COD), JWT-based authentication with OTP verification, and automated email notifications using Nodemailer.
- Converted the platform into a Progressive Web App using Capacitor, enabling single-codebase deployment for Web, iOS, and Android.

### 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.

## Education

---

Chandigarh University

B.E. in Computer Science and Engineering

September 2020 - May 2024

## Achievements

---

- 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

---

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