

# Kumar Harsh

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## 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

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Chandigarh University

*B.E. in Computer Science and Engineering*

September 2020 - May 2024

## 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)