

Kumar Harsh

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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, CloudShell), 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%.
- 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)