

Jyatin Kumar Singh

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WORK EXPERIENCE

KaHo Technologies

Bengaluru, India
(Remote)

Software Development Engineer Intern

Sep 2026 – Present

- Built and shipped parent verification forms and real-time toast notification systems for a customer-facing Parent App, among **5+** production features and bug fixes, **using Next.js, React, JavaScript, and TypeScript**.
- Cut form submission failure rate by **50% (20% to 10%)** by redesigning client-side validation logic and implementing structured error-handling across key user flows.
- Boosted image rendering performance by **60%+**, achieving consistent sub-500ms load times and eliminating recurring stalling issues through optimized lazy-loading and caching strategies.

PROJECTS

KiranaWala – Local Store Connectivity Platform | MERN | [GitHub](#)

May 2026

- Architected a MERN platform connecting customers with local stores within an **8 km radius** for product discovery and online ordering.
- Developed RESTful APIs for authentication and order management using Node.js, Express.js, and MongoDB, with automated Jest/React Testing Library test coverage.
- Validated ordering workflows end-to-end across **80+ products and 3+ stores**, including cart, checkout, and order-status flows.

Tech Stack: React.js, TypeScript, Redux Toolkit, Node.js, Express.js, MongoDB, JavaScript, HTML5, CSS3, Jest, React Testing Library

AskPDF – RAG-Powered Document Q&A System | RAG | [GitHub](#)

Apr 2026

- Built a **5-stage RAG** pipeline in Node.js for PDFs up to 20 MB, generating 768-dimensional embeddings for semantic vector search.
- Engineered Redis BRPOP workers with 202 Accepted async responses, hash-based job tracking, and stale-job cleanup for reliable background processing.
- Reduced hallucination risk by enforcing a **>0.7 similarity threshold** before passing retrieved context to the LLM for generation.

Tech Stack: Node.js, MongoDB, Redis, Gemini API, RAG, Embeddings, Vector Search, Vercel

MyWay – AI-Powered Civic Issue Reporting Mobile App | [GitHub](#)

Sep 2026

- Engineered a civic reporting pipeline handling **5 issue categories**, combining GPS tagging, image uploads, and duplicate detection to prevent redundant reports.
- Integrated Gemini Vision AI with a **2-model fallback** for image validation, issue classification, severity estimation, and description generation.
- Designed a **5-factor priority-scoring algorithm** combining community confirmations and 30-day rainfall data for pothole risk analysis.

Tech Stack: React Native, Expo, TypeScript, Firebase, Firestore, Gemini Vision AI, Google Maps, Open-Meteo API

TECHNICAL SKILLS

- Programming Languages:** Java, C++, JavaScript (ES6+), TypeScript, Python
- Frameworks & Libraries:** React.js, HTML5, CSS3, Next.js, Node.js, Express.js, Redux Toolkit, Tailwind CSS
- Databases & Tools:** MySQL, PostgreSQL, MongoDB, Redis, Git, GitHub, Docker, Jest, Postman
- Generative AI:** Gemini API, RAG, Vector Search, Embeddings
- Relevant Coursework:** DSA, OOP, Database Management Systems, Computer Networks, Operating Systems
- Soft Skills:** Problem-Solving, Communication, Collaborative Teamwork, Adaptability

EDUCATION

Lovely Professional University

Phagwara, Punjab

Bachelor of Technology, Computer Science and Engineering; CGPA: 8.1

Aug '24 – Present

ACHIEVEMENTS

- Solved 200+ DSA problems with a 100-day active streak on LeetCode | [LeetCode](#)
- Solved 150+ DSA and CS fundamentals problems on GFG | [GeeksforGeeks](#)
- Merged 5 open-source PRs across 120+ GitHub contributions | [GitHub](#)