Kartik Verma

Full-Stack Software Engineer

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Summary

Full-stack Software Engineer with nearly 2 years building mobile and web applications end to end – React Native and React on the front end, Node.js/Express and MongoDB on the back end. Strong in REST API design, secure authentication (JWT/OAuth), real-time systems, and concurrency control, plus Salesforce CRM integration.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Apex, HTML5, CSS3, C++

Frontend: React Native, React.js, Redux Toolkit, Expo, React Hook Form + Zod, Tailwind CSS, LWC

Backend: Node.js, Express.js, REST APIs, Socket.IO (WebSockets), JWT / OAuth 2.0, Mongoose

Databases: MongoDB, MySQL, Redis

Tools & Platforms: Git, GitHub, Jest, Postman, JIRA, Azure DevOps, Firebase FCM, Render, Salesforce

Concepts: Full-Stack Development, REST API Design, Authentication & Security, Concurrency Control, CI/CD, Agile/Scrum

Professional Experience

Dealermatix Technologies Pvt Ltd — Delhi, India

Software Engineer (promoted from Software Engineer Trainee) — *January 2025 – Present*

- Design and build **5+ custom REST API** integrations between a React Native app and Salesforce CRM, with validation and error handling that cut production API failures by 40%.
- Develop **Apex** and **Lightning Web Components** back-end logic for the CRM and ship the Salesforce–mobile **OAuth 2.0** integration (20+ REST endpoints) to production.
- Ship a **Salesforce CRM mobile app** (React Native/TS) with **10+ reusable components**, cutting feature dev time 30%.
- Author **Apex unit tests** at **85%+ code coverage** on new features, halving regression defects versus the prior release.
- Optimise React Native rendering by removing redundant re-renders, cutting screen load time 25% and fixing UI jank.

Projects

MediCart | *React Native (Expo), React (Vite), TypeScript, Node/Express, MongoDB, Redux Toolkit, JWT, Jest*

- Built a pharmacy & veterinary e-commerce platform across **3 codebases** – React Native (Expo) app, React/Vite admin dashboard, and Node/Express + MongoDB backend – with dual storefronts on a shared MD3 system.
- Architected atomic **compare-and-swap concurrency control** (Mongo *findOneAndUpdate*) to prevent double-claims and stock races in the prescription fulfillment workflow (upload, claim, quote, order, track).
- Delivered the end-to-end prescription lifecycle with **81 passing Jest backend tests** and lint/typecheck merge gates.
- Designed a UI-decoupled location hook (permission, GPS, reverse-geocode, secure-store cache) over a rate-limited Google Maps proxy, with JWT auth and shared design tokens across web and mobile.

RentKaro | *React Native, TypeScript, Node/Express, MongoDB, Redis, Socket.IO, Firebase FCM, Cloudinary, Render*

- Developed a full-stack peer-to-peer rental marketplace – React Native (TypeScript) on a Node/Express + MongoDB backend with Redis and Socket.IO – across **20+ screens**, deployed on Render.
- Engineered **JWT auth with rotating refresh-token families and theft detection**: replay revokes the family, token-version enables instant logout-all, and refresh tokens are peppered SHA-256 hashes (Redis-cached, DB fallback).
- Handled distributed concurrency on both ends – **single-flight client token refresh** (concurrent 401s don't race) and a wallet escrow/deposit-hold ledger in **multi-document MongoDB transactions**, Planned for a pluggable payment gateway.
- Added **Socket.IO** chat (JWT-authenticated handshake, gated by booking status), **FCM push** with deep-linking, and geospatial 2dsphere search; hardened with a rate limiter, security headers, and Redis graceful degradation.

Vintage Photo Restoration (GANs) | *Python, TensorFlow, OpenCV*

- Trained a GAN on **5,000+ image pairs** for +4 dB PSNR vs. baseline; 20% faster convergence via adaptive LR scheduling.

Education

Chandigarh University — Gharuan, Punjab

B.E. Computer Science — Artificial Intelligence & Machine Learning | ***GPA: 8.2 / 10.0*** — *June 2025*