Kalpesh Khairnar

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Professional Summary

Passionate and detail-oriented **Software Development Engineer 1** with around 3 years of experience specializing in React, TypeScript, and modern frontend architectures. Proven track record of integrating AI-powered features, LLMs, and Generative AI to build intelligent, user-centric web applications. Adept at collaborating with cross-functional Agile teams to deliver seamless user experiences, write clean and well-documented code, and resolve complex frontend debugging challenges.

Technical Skills

Languages & Frameworks: JavaScript (ES6+), TypeScript, React.js, Redux, Next.js, Node.js, Express.js
Web Technologies: HTML5, CSS3, Responsive Web Design, Tailwind CSS, Ant Design, Material UI
AI & Generative AI: OpenAI API, Gemini AI, LangGraph, LLM Integration, Prompt Engineering
Tools & DevOps: Git, GitLab, Webpack, Babel, npm, Postman, CI/CD Pipelines
Databases: MongoDB, MySQL
Methodologies: Agile, Scrum, Code Reviews, RESTful API Integration

Experience

Solvative September 2023 – Present
Software Development Engineer 1 *Ahmedabad, Gujarat*

- **Architected** config-driven **React 19 + TypeScript** frontend for IoT dairy platform serving 8 user roles; reduced feature delivery time by **40%** by eliminating cross-feature coupling.
- Designed end-to-end **RBAC system** for 8 roles with **DB-driven** permission matrix (17+ permissions), enforced at route, component, and API interceptor layers with zero bypass vectors.
- Built a production-grade View As / impersonation system using dual-token **JWT architecture** (30-min short-lived impersonation token + preserved real session token).
- Implemented route-level **lazy loading** + Rollup **chunk splitting**, reducing initial **JS bundle by 42%.**
- Developed and shipped the WRE Portal using **Next.js (SSR/SSG rendering), LESS, Ant Design, and MongoDB**, delivering a user-centric survey interface that improved completion rates and reduced respondent drop-off.
- Replaced manual fetch with **TanStack Query** v5 caching strategy, reducing redundant API calls by **60%** and perceived load time from **1.4s → 320ms**.
- Integrated RESTful APIs in close collaboration with backend engineers; developed a Slack integration for automated error alert routing.
- Utilized **Git** and **GitLab** for version control, branch management, and collaborative development across multiple concurrent projects.

Slideoo March 2023 – June 2023
Frontend Developer Intern *Bengaluru, Karnataka*

- Developed the frontend UI of the company's core application using **Next.js** and **TypeScript**, implementing responsive layouts and reusable components for a consistent design system.
- Integrated **RESTful APIs** in close collaboration with backend developers to power data-driven features, gaining hands-on experience with API consumption patterns used across modern front-end applications.
- Translated UI/UX wireframes into pixel-accurate, functional web pages by collaborating directly with designers, ensuring fidelity to design specifications and a polished end-user experience.

Projects

Real-Time Orderbook Viewer | *Next.js, Recharts, Tailwind CSS, WebSocket API* **Github** | **Live Demo**

- Built a real-time cryptocurrency orderbook viewer integrating live data from OKX, Bybit, and Deribit via **WebSocket APIs**, with fallback handling for simulated data streams.
- Delivered a fully responsive, cross-platform UI using **Tailwind CSS** and **Recharts**, optimized for desktop traders and mobile-first users, improving accessibility and adoption.
- Designed a dynamic order simulation form with controlled inputs, input validation, and timing-based placement controls; added imbalance indicators and slippage estimation tools to improve market behavior visibility.

Book Forum Mobile App | *React Native, MongoDB, Node.js, Express.js, Machine Learning* **GitHub**

- Developed a cross-platform mobile application using **React Native** enabling community-driven book discussion and reviews, with a **RESTful API** backend built on **Node.js** and **Express.js**.
- Integrated machine learning-driven recommendation features and leveraged **MongoDB** for scalable storage of user data, book details, and forum posts, ensuring efficient data retrieval at scale.

Education

International Institute of Information Technology, Pune November 2020 – June 2023
Bachelor of Engineering in Information Technology *Pune, Maharashtra*