Keshab Chai

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Professional Summary

React Developer and Frontend Engineer specializing in scalable web development, frontend architecture, and cross-functional collaboration. Proven ability to take ownership of broken or poorly designed projects and transform them into maintainable, future-proof platforms. Skilled at introducing modern libraries, improving security, and building user-focused systems. Strong problem-solving and communication skills with a collaborative approach to team development.

Skills

- **Frontend Development:** React.js, Next.js, Astro, JavaScript (ES6+), TypeScript, HTML5, CSS3, Responsive Design
- **Architectural Design:** Frontend Architecture, Scalable multi-tenant systems, modular UI patterns, strict TypeScript migrations, security audits
- **State & Data:** TanStack Query, Redux Toolkit, RTK Query, WebSocket (STOMP), RESTful APIs
- **UI & Styling:** Tailwind CSS, Ant Design
- **Integrations:** Stripe Payments, OpenAI Chat, OpenAI Voice Agent (MVP)
- **Tools & Practices:** GitHub/GitLab, Git Workflows, Vitest, Version Control, Jira, Figma, Postman, SEO optimization
- **Programming:** JavaScript (ES6+), TypeScript, HTML/CSS, Python

Work Experience

React Developer 10/2023 - Present
AusNep IT Solution Pvt. Ltd. *Sydney, New South Wales (Remote)*

- Collaborated with a team of 2 backend engineers to design and deliver a scalable e-commerce platform. Started as a single-tenant build, later adapted for admin-controlled theming and module toggling, and re-architected into a multi-tenant platform designed for unlimited storefronts, with automated onboarding and centralized backend infrastructure.
- Built OpenAI-powered voice agents using both traditional STT→LLM→TTS pipeline (Whisper-1, GPT-4o-mini, TTS-1) and cutting-edge real-time API (GPT-4o-mini-realtime-preview) with WebRTC for live bidirectional conversations and real-time transcription via GPT-4o-mini-transcribe.
- Built a Google Drive–like file system entirely from scratch, fixing broken navigation and storage logic in a legacy implementation.
- Implemented real-time socket systems (STOMP/WebSocket) for the first time at company, enabling live chat, tenant updates, and notifications.
- Refactored a core service-listing feature that was blocking shareable URLs and marketing campaigns. Re-architected flow to use route-based state, making forms modular, reusable, and sharable.
- Migrated projects from JavaScript to strict TypeScript (no `any`), improving long-term reliability and developer velocity.
- Partnered with backend to design a secure Stripe payments flow with saved details, replacing insecure or portal-based solutions.
- Introduced TanStack Query to replace fragile Redux Observable/Thunk setups, reducing boilerplate and standardizing API integration.
- Developed a responsive CRM/Dashboard layout with persistent menu states and proper page-level scrolling, replacing broken UI patterns.
- Improved frontend security by auditing and disabling source map leakage, preventing code exposure in production.
- Architected and rebuilt core systems where legacy solutions were unscalable or broken, ensuring maintainability and team productivity.

Education

St. Lawrence College, Tribhuvan University Kathmandu, Nepal
Bachelor in Computer Science and Information Technology *2019 - 2023*

Golden Gate International College, Tribhuvan University Kathmandu, Nepal
+2 Science *2017 - 2019*