Albert Tran

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Languages : TypeScript/JavaScript, Python, C++, C, Java, SQL, Ruby, HTML/CSS
Technologies : React, Next.js, Ruby on Rails, GraphQL, NodeJS, Tailwind CSS, Express.js, Vite, Firebase, Axios, Redux
Tools : PostgreSQL, AWS S3, Redis, DynamoDB, MongoDB, Unity

EDUCATION

University of Waterloo   2020 - 2025
Bachelor of Software Engineering (BSE)   Waterloo, Ontario
- Graduated with Distinction

EXPERIENCE

Kortex   Jan. 2024 – Aug. 2024
Frontend Developer   Toronto, ON
- Core member in the inception of the Kortex note-taking application, collaborating with stakeholders to translate needs into functional requirements and leading feature development ensuring a successful launch to **20k+ users**
- Engineered a **real-time collaborative editing platform** with rich-text capabilities, leveraging **Tiptap**, **Prosemirror**, **Y.js**, and **WebSockets** to enable seamless multi-user editing with consistent **sub-200ms** latency
- Designed and implemented user flow for an **AI-powered chatbot** using **WebSockets**, enabling real-time interactions with message streaming, token-based authentication, and persistent chat history
- Achieved a **45%** reduction in TTI through bundle size reduction, state memoization and efficient caching

Tesla   May 2023 – Aug. 2023
Frontend Developer   Fremont, CA
- Owned the revamp of Tesla's internal **CRM** (reducing Salesforce licensing reliance) building comprehensive data tables and inline management tooling to track sales leads and handle interactions for **40k+** global prospects
- Designed **SSO** authentication systems with both USER and M2M tokens via **ADFS** and optimized with **Redis** caching to ensure session security on a sales platform estimated to produce over **$1 million** in yearly revenue
- Collaborated cross-functionally with backend and security teams on distributed systems to streamline data pipelines, enhance frontend performance, and improve system reliability across the CRM platform
- Implemented **BFF layer** architecture patterns to encrypt sensitive data and reduce network requests by **83%**

Halp Inc.   Sep. 2022 – Dec. 2022
Full-Stack Developer   Toronto, ON
- Developed **internal tools** based on user specification, decreasing admin/internal time on task by **25%**
- Increased product sign up conversion rate by **150%** through **SEO** optimization and by streamlining onboarding UX
- Implemented **unit** and **integration** testing using **Jest** to strengthen scalability with **92%** code coverage

Canix   Jan. 2022 – Apr. 2022
Full-Stack Developer   San Francisco, CA
- Created and launched a reusable React **component library**, leveraging **Storybook** and **ThemeUI** to create a monolith for **80+** React components

Sponsor Circle Inc.   Jun. 2021 – Sep. 2021
Full-Stack Developer   Toronto, ON
- **Spearheaded front-end overhaul** from HTML to **React** decreasing technical overhead, reducing server response and page rendering times by **40%** to lower memory usage and improving long term scalability

PROJECTS

Omw! 🔗 | Map-based social media app in React Native | over 100 active users!
Personal Website 🔗 | Check out more of my projects here!
CortexOS | C, ARM
- Engineered a **C based operating system** incorporating advanced features such as multitasking, memory management, file system support, process communication, and device management
- Implemented Interrupt-driven I/O, LRU Paging algorithms, and **Multi-level Feedback Process Queues**