

# 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

## EXPERIENCE

### Kortex

Jan. 2024 – Aug. 2024

#### Frontend Developer

Toronto, ON

- Core contributor 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 the 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 generating over **\$1 million** in annual 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, reducing time spent on internal administrative tasks 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** to standardize UI across applications 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**

## EDUCATION

**University of Waterloo**

2020 - 2025

*Bachelor of Software Engineering (BSE)*

Waterloo, Ontario