

Albert Tran

☎ 416-567-9887 | ✉ albertq.tran1@gmail.com | 🌐 albertttran1 | 🌐 albertttran1 | 🐱 albertttran1

SKILLS

Languages : C++, Python, TypeScript, JavaScript, Java, SQL, C, 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

Software Engineer

Toronto, ON

- Launched a real-time collaborative document editor adopted by **20K+ users**; engineered real-time sync using **CRDTs** and **WebSockets** to deliver seamless multi-user editing with low-latency performance
- Built infrastructure for an **AI-powered chatbot** that handled **>100K** messages in first month using WebSocket connections, message streaming, token-based auth, and persistent chat history
- Reduced application load time by over **40%** through bundle optimization, state memoization, and efficient caching
- Helped lay the technical foundation as one of the first engineers; worked closely with stakeholders to translate needs into functional requirements and established core code structure, design patterns, and developer workflows

Tesla

May 2023 – Aug. 2023

Software Engineer

Fremont, CA

- **Led frontend rebuild of internal CRM** originally designed to replace Salesforce; a system used to manage **40k+** global prospects and contributing to over **\$1M** in annual license savings
- Built comprehensive data tables and inline management tooling to track sales pipelines and handle interactions
- Designed **SSO** auth systems implementing both M2M and USER tokens via **ADFS** optimized with **Redis** caching
- 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
- Designed **BFF architecture** to consolidate 10+ data sources; reduced API traffic by **83%** and improved frontend response times by **40%**

Halp Inc.

Sep. 2022 – Dec. 2022

Software Engineer

Toronto, ON

- Developed **internal tools** for advisors, reducing processing time by 25% and freeing 15 staff hours/week
- Increased product sign up conversion rate by **150%** through **SEO** optimization and by onboarding UX improvements
- Implemented **unit** and **integration** testing using **Jest** to strengthen scalability with **92%** code coverage

Canix

Jan. 2022 – Apr. 2022

Software Engineer

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

Software Engineer

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

Apr. 2025

Bachelor of Software Engineering (BSE), Graduated with Distinction

Waterloo, Ontario