

EXPERIENCE

Ora Medical | Lead Full-stack Developer

May 2023 – Current

React, React Native, TypeScript, Kotlin, Java, GraphQL, Realm, Atlas App Services

Montreal, QC

- Developed a Web platform in **React** used by medical professionals for remote monitoring of patients with walking disabilities. The platform enhances patient care by enabling personalized treatment plans and timely interventions, while requiring fewer resources
- Developed and maintained robust software solutions for medical applications, following standard operating procedures and complying with various regulatory systems
- Worked on a mobile application in **React Native** used by the patients. The app communicates with a MetaWear sensor worn by the individual, collecting a wide range of data related to their walking patterns
- Wrote custom **React Native** modules in **Kotlin** for the **Android** version to properly initialize the MetaWear device
- [Contributed](#) to MbientLab’s Android MetaWear SDK (**Java**) to add the step counter and activity detection fonctionnalités to MetaWear devices
- Designed a database using **MongoDB Atlas App Services**. Used **GraphQL** for queries on the Web platform and **MongoDB Realm** for the local database on the mobile application

Amazon | Software Developer Intern

May 2022 – Aug 2022

React, Java, TypeScript, GraphQL

Toronto, ON

- Migrated the gift card locking feature to Amazon’s new customer service internal platform in order to reduce dependency on legacy code as part of the ongoing platform upgrade
- Designed and implemented a **GraphQL** schema to integrate the new user interface (**React**) with the gift card locking functionality
- Wrote **Java** code using a proprietary Amazon framework to handle the gift card locking requests
- Played a key role in the ongoing platform upgrade by reducing technical debt and ensuring compatibility with modern technologies.
- Created a design document explaining the different requirements and the steps to complete the project


Google | Software Developer Intern


Jan 2022 – Apr 2022

Rust, C++, Fuchsia

Remote

- [Contributed](#) to Fuchsia, Google’s open-source operating system
- Developed **Rust**-based "ffx plugins", command-line tools used for debugging Fuchsia components
- Improved the functionality and readability of existing commands by refactoring their code and output format. This made them simpler to use by other developers and enhanced their utility.
- Created new debugging commands in **Rust** to analyze running Fuchsia components
- Implemented in **Rust** a feature that generates **Rust** or **C++** code to conditionally compile the inspect code in Fuchsia components, allowing them to share information about their health and configuration

 github.com/tran-simon/fuchsia/commits?author=tran-simon

 fuchsia-review.googlesource.com/q/owner:transimon@google.com+status:merged

Vélocité Conseil | Fullstack Developer

Sep 2020 – Jan 2022

React, TypeScript, Firebase, Stripe

Montréal, QC

- Led the development of Hazy Brewing app, a **React (TypeScript)** web application for amateur and professional brewers
- Created a recipe creation and management system, an inventory manager and a brew scheduler to facilitate beer production
- Implemented support for multiple authenticated users within organizations using **Firebase Authentication**, enabling collaborative brewing
- Built a system to import beer recipes from other brewing softwares using a custom algorithm for ingredient matching
- Integrated the **Stripe** payment gateway for secure and reliable in-app purchases

EDUCATION

Polytechnique Montreal

August 2018 – May 2023

Bachelor's degree in Computer Engineering

PROJECTS

Jami-Web

React, TypeScript, WebRTC, Express.js, REST, WebSocket, Docker

Aug – Dec 2022

WebRTC client for Jami, an open-source distributed video conference application

 github.com/tran-simon/jami-web

Fourth year project at Polytechnique in partnership with [Savoir-faire Linux](#)

 jami.net

Crazyflie Drone Exploration

C, Python, Flask, React, TypeScript

Jan – Apr 2021

Low-level artificial intelligence for an exploring flying drone

 github.com/tran-simon/inf3995-main

Third year project at Polytechnique

 inf3995-100.web.app

TECHNICAL SKILLS

Programming Languages:

JavaScript, TypeScript, Java, Kotlin, Rust, Python, C, C++, HTML/CSS, SQL

Frameworks and Libraries:

React, Angular, Node.js, Express.js, React Native (Android, iOS, Web, Android SDK (Java, Kotlin), LibGDX, Flask, Spring/Spring Boot, MongoDB Realm

Cloud Technologies:

AWS, Google Cloud Platform, Firebase, Azure, Docker, docker-compose, MongoDB Atlas App Services


Miscellaneous:

Linux (Arch), Git, GitHub/Gitlab/Bitbucket/Gerrit, Jira/Trello, Jenkin

Spoken Languages:

English, French

Simon Tran Resume v1.0.0 built with [JSON Resume](#)

 github.com/tran-simon/curriculum-vitae