

Simon Tran

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EXPERIENCE

Amazon

May 2022 – August 2022

Software Developer Intern

Toronto, On

- Researched, designed and implemented a new feature for Amazon's customer service web application
- Created a design document explaining the different requirements and the steps to complete the project
- Designed a GraphQL schema
- Implemented the backend in Java using proprietary Amazon frameworks and tools
- Modified the frontend to add the new feature in Typescript using React

Google

January 2022 – April 2022

Software Developer Intern

Remote

- Contributed to Fuchsia, Google's open-source operating system, with the Component Framework team. Worked on the "Structured Configuration" Fuchsia project
- Learned Rust and used C++
- Developed "ffx plugins" in Rust, command line tools used to debug Fuchsia components
- Code review using Gerrit

📄 www.github.com/tran-simon/fuchsia

Vélocité Conseil

September 2020 – January 2022

Fullstack Lead Developer

Montréal, Qc

- Lead developer of a React app using Typescript and Firebase
- Responsible for key architectural and technological decisions
- Designed parts of the UI/UX using Material-UI
- Responsible for structuring the database in Firebase Realtime Database and Firebase Storage
- In charge of application security and user data privacy

National Bank of Canada

May 2020 – August 2020

Intern Developer, Digital Studio

Montréal, Qc

- Backend (Java), frontend (React, Javascript, html/css) and mobile development (React Native)
- Mobile development using React Native

National Bank of Canada

May 2019 – May 2020

Intern Developer, Wealth Management

Montréal, Qc

- Backend development in Java using Spring, Springboot, Apache CXF, Swagger, JUnit, Mockito
- Frontend development with React, Javascript, html/css

National Bank of Canada

July 2018 – August 2018

Intern Developer, Banking Transaction Assets

Montréal, Qc

- COBOL development

EDUCATION

Polytechnique Montréal

Montréal, Qc

Baccalaureate in Computer Engineering (fifth year ongoing)

August 2018 – May 2023

- Computer Security and Mobility Concentration

PROJECTS

- Jami-Web** | *React, Typescript, Express, WebRTC, Swig, Docker* Fall 2022
Final project at Polytechnique in association with Savoir-faire Linux
- Creation of the web version of Jami: An open-source distributed video conference application
 - Frontend in Typescript with React
 - Implementation of WebRTC for peer-to-peer audiovisual communication
 - Backend with Express.js in Typescript. Authentication management, REST API and WebSocket connection with the client
 - CI using Jenkins
 - Code review using Gerrit
- 🔗 www.github.com/tran-simon/jami-web
- Babel Reader** | *React, Firebase, GitHub Actions* 2020
Ebook reader app in React with easy one click translations
- Firebase for the hosting and the storage of user data
 - Continuous integration and deployment using GitHub Actions
 - Demo: <https://babel-reader-web.web.app/>
- 🔗 www.github.com/Babel-Reader/babel-reader-web
- Crazyflie Drone Exploration** | *C, Python, Flask, React, Typescript, Firebase* Winter 2021
Third year of university final project
- Development of an artificial intelligence for a Crazyflie drone in C
 - Base station server in python to communicate with the robots
 - Web UI in React and Typescript. Usage of Firebase Realtime Database
 - Frontend deployed on Firebase: <https://inf3995-100.web.app/>
- 🔗 www.github.com/tran-simon/inf3995-main
- Polydessin** | *Angular, Typescript, Node, Express, Bitbucket pipelines, Firebase hosting* Winter 2020
Second Year of university final project
- Creation of a webapp in Typescript using Angular
 - Backend created using Node and Express
 - Continuous integration and deployment using Bitbucket pipelines
 - Demo version deployed using Firebase: <https://log2990-104.web.app/>
- 🔗 www.github.com/tran-simon/LOG2990-104
- Math by Heart** | *Java, Android, MathJax* 2017
Personnal project of an android open-source app to ease the learning of math formulas
- Usage of Android Studio and the MathJax library
- 🔗 www.github.com/tran-simon/MathByHeart
- The Mass Spectrometer** | *Java, Swing* 2018
End of CEGEP project: Scientific application in Java to simulate a mass spectrometer
- Simulation a mass spectrometer, a cyclotron and the behavior of particles under the effect of electromagnetic fields
 - User interface using Java Swing
- 🔗 www.github.com/tran-simon/Spectrometre

TECHNICAL SKILLS

Languages: Javascript, Typescript, Java/Kotlin, Rust, Python, C, C++, HTML/CSS
Frameworks: React, Angular, Node.js, Express, Flask, Material-UI, Spring/Spring Boot, React Native
Cloud Technologies: AWS, Google Cloud Platform, Firebas, Azure, Docker, docker-compose
Mobile Development: iOS/Android, React Native, Java/Kotlin
Operating System Development: Fuchsia (Rust, C++)
CI/CD: Jenkins, GitHub Actions, Bitbucket Pipeline, GitLab Pipelines
Miscellaneous: Git, GitHub/Gitlab/Bitbucket/Gerrit, Jira/Trello, Confluence, Windows, macOS, Linux (Arch)
Languages: French, English, Spanish (Beginner)