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

École Polytechnique de 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)