Simon **Tran**

Computer Engineering Student · Polytechnique Montréal

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Summary

- Backend development: Java, Spring, Springboot, NodeJS, Express, GraphQL
- Frontend development: ReactJS, Angular, Javascript/Typescript, html/css, Firebase
- Mobile development: ReactNative, Java
- Operating System development: Rust, C, C++
- Familiarity with Linux (Arch), Windows, MacOS, Fuchsia
- Languages: French, English, Spanish (Beginner)

Education

École Polytechnique de Montréal - Computer Security and Mobility Concentration

2018 - PRESENT

Baccalaureate in Computer Engineering (fifth year ongoing) — *Montréal*

- Recipient of an excellence scholarship at admission

Collège de Maisonneuve

2016 - 2018

Computer Science and Mathematics — *Montréal*

- Overall R score of 32.601 in the winter 2018 semester

Experience

Software Developer Intern

May 2022 - August 2022

Amazon — *Toronto*

- I 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.

Sofware Developer Intern

January 2022 - April 2022

Google — *Remote*

- Worked on Google's Fuchsia 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

Fullstack Lead Developer

September 2020 - January 2022

Vélocité Conseil — *Montréal*

- 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.

Intern developer, Digital Studio

May 4 2020 - August 28 2020

National Bank of Canada — *Montréal*

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

Intern developer, Wealth Management

May 6 2019 - May 4 2020

National Bank of Canada — *Montréal*

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

Intern developer, Banking Transaction Assets

July 2018 - August 2018

National Bank of Canada — *Montréal*

- COBOL development

Projects

Babel Reader

Ongoing

Personnal project of an ebook reader app with easy one click translations

- Usage of ReactJs
- Usage of Firebase for the hosting and the storage of user data
- Continuous integration and deployment using Github Actions
- Publication of the source code on Github: `https://github.com/Babel-Reader/babel-reader-web`
- Deployment of a development version `https://babel-reader-web.web.app/`

Crazyflie Drone Exploration

Winter 2021

Third Year Final Project

- Programmed a Crazyflie robot artificial intelligence in C
- Programmed a base station in python to communicate with the robots
- Development of a web frontend in React in Typescript. Usage of Firebase Realtime Database
- Source code available on Github: `https://github.com/tran-simon/inf3995-main`
- Frontend deployed on Firebase: `https://inf3995-100.web.app/`

Polydessin

Winter 2020

Second Year Final Project

- Creation of a webapp in typescript using Angular
- Backend created using node and express
- Continuous integration and deployment using Bitbucket pipelines
- Source code available on Github: `https://github.com/tran-simon/LOG2990-104`
- Demo version deployed using Firebase: `https://log2990-104.web.app/`

Math by Heart

Personnal project of an android open-source app to ease the learning of math formulas

- Usage of AndroidStudio and the MathJax library
- Source code available on Github: `https://github.com/tran-simon/MathByHeart`

The mass spectrometer

2018

End of CEGEP project

- Creation of a scientific application in Java to simulate a mass spectrometer, a cyclotron and the behavior of particles under the effect of electromagnetic fields
- Usage of Apache Subversion for version control
- Creation of a physics engine to accurately simulate particles using Euler's algorithm and Runge-Kutta's
- Source code available on Github: `https://github.com/tran-simon/Spectrometre`

Hackathons and Competitions

- Hackatown (2019 - Polytechnique Montreal) - `https://hackatown.io/`
- HackQC (2018 - École de Technologie Supérieure) - `https://hackqc.ca`
- UdeM's DIRO Hackathon (2017, 2018 - UdeM) - `https://diro.umontreal.ca/departement/hackathon/hackathon-2018/`

Technical Knowledge

- Development of web apps, Frontend or Backend, using React, Angular, Spring...
- Mobile development (iOS, Android) using ReactNative, Java
- Operating System development (Fuchsia) in Rust, C++
- Development on FPGA chips in VHDL
- Knowledge of Git, Github, Subversion
- Familiarity with Atlassian tools: Jira, Confluence, Bitbucket
- Abilities with Windows, MacOs, Linux (Arch)
- Experience with LaTeX

Programming languages I have experience with:

Rust, Javascript, Typescript, Java, C, C++, HTML/CSS, Python, VHDL, Cobol