

# 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 32.6 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.

### Software 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

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## Babel Reader

Ongoing

PERSONAL 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

PERSONAL 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

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- 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

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- 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:

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