Simon **Tran**

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Summary

- Backend development: Java, Spring, Springboot, NodeJS, Express
- Frontend development: ReactJS, Angular, Javascript/typescript, html/css
- Mobile development: ReactNative, Java, Swift, Objective-C
- Familiarity with Linux (Arch), Windows, MacOS
- Internship experience in cobol
- Languages: French, English, Spanish

Education

École Polytechnique de Montréal

2018 - PRESENT

Baccalaureate in Computer Engineering (third year ongoing)

Montréal

- Recipient of an excellence scholarship at admission

Collège de Maisonneuve

2016 - 2018

Computer Sciences and Mathematics

Montréal

- Overall R score of 32.601 in the winter 2018 semester

Experience

National Bank of Canada

May 4 2020 - August 28 2020

Intern developer, Digital Studio

Montréal

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

National Bank of Canada

May 6 2019 - May 4 2020

Intern developer, Wealth Management

Montréal

- Backend development in Java using Spring, Springboot, Apache CXF, swagger
- Frontend development with React, Javascript, html/css
- Unit testing with JUnit, mockito, jest

National Bank of Canada

July 2018 - August 2018

Intern developer, banking transaction assets

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/`

Polydessin

Winter 2020

Second year integrator 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`
- Final version released on the Playstore: `https://play.google.com/store/apps/details?id=com.games.potato.mathbyheart&hl=en`

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`

Radio project *Fall 2019*

Project made during the electromagnetic fields course

- Creation of an AM radio
- Usage of a breadboard for the circuitry

Complementary Experience

Hackatown *2019*

https://hackatown.io/ *Polytechnique Montréal*

- Development of an Android app during a hackathon: Montreal Patrol `https://devpost.com/software/hackatown-ba7z0v`

HackQC *2018*

https://hackqc.ca *École de Technologie Supérieure*

- Development of an Android app using the google maps API during a hackathon: Tree Catcher GO - `https://devpost.com/software/tree-catcher-go`
- 2018: Development of an AI in Java to play a game similar to Lode Runner: `https://github.com/tran-simon/NodeRunner`

Hackathon du Département d'Informatique et de Recherche Opérationnelle de l'Université de Montréal *2017 and 2018 editions*

https://diro.umontreal.ca/departement/hackathon/hackathon-2018/
http://hackathon.iro.umontreal.ca/2017/ *DIRO, Université de Montréal*

- 2018: Development of an AI in Java to play a game similar to Lode Runner: `https://github.com/tran-simon/NodeRunner`
- 2017: Development of an AI in Java to play against other AIs in TRON: `https://github.com/tran-simon/Tron`

Technical Knowledge

- Development of web apps, Frontend or Backend, using React, Angular, Spring...
- Mobile development (iOS, Android) using ReactNative, Java, Swift, Objective-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 in COBOL programming
- Experience with OpenShift, Jenkins, SonarQube, Nexus Repository Manager, Spring, Springboot, SpringMVC, Swagger, NodeJS, npm, yarn
- Experience with LaTeX

Known programming languages

- Java
- C/C++
- Javascript
- Typescript
- HTML/CSS
- Objective-C
- Swift
- VHDL
- Cobol
- Python