

EDUCATION

Bachelor of Engineering (Honours Electrical, Minor Software Engineering)

Sept. 2014 – May 2018

McGill University, Montreal, QC

- GPA: 4.0
- Dean's Honour List

WORK EXPERIENCE

Amazon Software Development Engineer Intern (FLASH USL Team)

Jun. 2017 – Aug. 2017

Vancouver, BC

- Implementing SQL-like "group by" querying of financial ledger data stored with Amazon's **DynamoDB** and **S3** services
- Improving the speed of the above querying by implementing **MapReduce** with the Apache **Spark** library

Tactio Health Group Digital Health Software Developer Intern (Cloud Team)

May 2016 – Aug. 2016

Montreal, QC

- Developed a **PHP** testing framework covering **60 %** of the back-end API, leading to increased bug detection before deployment
- Created a **PHP** fake data generator with daily **Cron** jobs and a producer-consumer queue in **MySQL**, allowing for more realistic simulation of patients with various medical conditions

JNPSoft Java Developer

May 2015 – Aug. 2015

Montreal, QC

- Made importing of car parts data from Excel to a **SQL** database over **300 times** faster by implementing a bulk import in **Java**
- Improved the GUI of the company's main program, PartCat, by implementing the **MVP** architectural pattern

PROJECTS

TLDR News Co-founder, Lead Developer

Jan. 2017 – Present

Montreal, QC

- Designed and developed an **iOS** and **Android** service that provides personalized summaries of the latest news
- Created **Java** Tomcat servlets running on Amazon **Elastic Beanstalk** to periodically extract articles and output summaries in **JSON**

Prometheus AI Honours Thesis

Jan. 2017 – Dec. 2017

Montreal, QC

- Created the Expert System and Knowledge Node Network **Java** layers of Prometheus, whose goal is to control multiple robots
- Supervised and guided two volunteers in the lab over the summer to help expand the functionality of the system

ECSE 211 Robot Competition Project Manager, Java Developer

Jan. 2015 – Apr. 2015

Montreal, QC

- Designed an autonomous robot with ultrasonic and light sensors capable of navigating a map and launching balls at targets
- Implemented obstacle avoidance, moving-average, and differential filtering algorithms in **Java**

TECHNICAL SKILLS

Languages: Java, Python, PHP, C, Swift, Objective-C, Arduino, VHDL, SQL, MIPS Assembly, LaTeX

IDEs and Editors: Eclipse, Android Studio, IntelliJ IDEA, Visual Studio, Xcode, Sublime Text, vim, Arduino, IDLE

Databases: MySQL, DynamoDB, Firebase, MS SQL Server, MS Access

Operating Systems: Windows, macOS, Ubuntu, CentOS

AWARDS & SCHOLARSHIPS

Beverly and Arthur Mendel Family Scholarships	2016	J. B. Woodyatt Prize	2015
NSERC Experience Award	2016	John Howard Ambrose Scholarship	2015
Mary Gilsig Scholarship in Engineering	2015, 2016	J. W. McConnell Scholarship	2014