Sean Stappas

514-549-7825 | sean.stappas@mail.mcgill.ca | seanstappas.me

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, 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*