**Antoine Khouri**

Montreal, QC

514-699-6015 - [antoine.khouri@mail.mcgill.ca](mailto:antoine.khouri@mail.mcgill.ca) – [antoinekhouri.ca](https://antoinekhouri.ca/)

Education

**Bachelor of Software Engineering,** 2020

*McGill University Montreal, QC*

Technical Skills

**Various Technologies & Frameworks:** Kibana, ElasticSearch, Jenkins, Jira, React, Maven, Linux environment, Git, AWS, Node.js, Angular.js, STM32.

**Languages:** Bash, C, Python, Java, Javascript, HTML, CSS, SQL.

Work Experience ­ ­

**Publicis Sapient October 2020-Present**

*Junior Associate Software Developer*

* Received training on **Node.js**, **Express**, **React**, **design** **patterns**, **AWS technologies**, and much more
* In a team of 8, built a Shopping Application Prototype for an internal project within the company
* Set up the **Amazon Aurora** database using **MySQL**, as well as the backend using Node.js and Express

**Publicis Sapient June 2019-August 2019**

*Junior Associate Software Development Intern* *Toronto, ON*

* Created KPIs for client using **ElasticSearch** for data manipulation,and **Kibana** & **CSS** fordata display
* Automated parsing, manipulation & upload of data using **Java** and **Python** with **Maven** and **Jenkins**
* Optimized existing data manipulation processes using **SQL** and **Timelion** in tandem with Kibana

**Sensequake**  **January 2019-May 2019**

*Software Engineer Intern Montreal, QC*

* Doubled speed of sensor-gateway file upload using **C** (sensor) and **Python** (gateway) with STM32 library
* Improved reliability by implementing a four-second watchdog reset functionality for sensors & gateway
* Increased performance potential by increasing maximum sensor sampling rate from 244 Hz to 488 Hz

Engineering Projects

**Machine Learning -** <https://github.com/antoinekhouri/551>

* Led a team of 3 to the implementation of a naïve Bayes machine learning model using native **Python**
* Implemented to support **Gaussian**, **Bernoulli** and **multinomial** likelihoods to handle all types of data
* Prediction accuracy: adult salaries (83%), breast cancer (83%), hepatitis (87%), ionosphere color (80%)

**Capture the Flag**

* In a team of 6, designed robot hardware & embedded system software using **Lejos EV3** & **Java**
* Iterative hardware & software design method, changes based on test data & updated final requirements
* Finished in 5th place in the final capture the flag competition between different teams’ robot designs

**Canadian Entertainment Ticket Center -** <https://github.com/antoinekhouri/421_p3>

* In a team of 4, designed the E/R & relational models of for an entertainment ticket center system
* Created & edited 14 tables in **PGSQL** database, then filled with hundreds of generated records, using **SQL**
* Implemented Java application performing 5 commands relating to E/R model using the PGSQL database