

Antoine Khouri

Montreal, QC

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Education

Bachelor of Software Engineering,
McGill University

2020
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

June 2019-August 2019

Junior Associate Software Development Intern

Toronto, ON

- Created KPIs for client using **ElasticSearch** for data manipulation, and **Kibana** & **CSS** for data 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%)

Publicis Sapient Industry Challenge

- In a team of 5, created an app that matches marketers with social media influencers based on their brand
- Developed front-end using **React** and back-end using **Python**, designed with **Figma**
- Intended to make use of a machine learning algorithm to properly match marketers with influencers

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