Antoine Khouri

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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** 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%)

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