

Antoine Khouri

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Education

McGill University

Sept 2015 – May 2020

Bachelor of Engineering (B.Eng), Software Engineering

Montreal, QC

- Data Structures, Algorithm Design, Database, Artificial Intelligence, Machine Learning,
- Software Delivery, Agile Development, Operating Systems, Software Validation, Software Requirements

Skills

- **Languages:** Java, Python, C, Javascript, HTML/CSS, SQL, Bash
- **Frameworks & Services:** React, NodeJS, Spring, AEM, Adobe Campaign, Linux Environment, Git, Kibana, Elasticsearch, Rest API, JIRA, Jenkins, Maven, Docker, Kubernetes, Flask, AWS, SonarQube, Timelion, STM32, Gitlab
- **Certifications:** Azure Fundamentals, Secure Coding, Accessibility for Web Design, DevOps Foundation, Designing RESTful APIs

Work Experience

Publicis Sapient

Oct 2020 – Present

Junior Associate Software Developer

Toronto, ON

- Implemented the Backend API (**NodeJS**) & Database (**Amazon MySQL**) stack for internal Shopping App Project in a team of 3
- Helped client improve marketing offer administration efficiency by working on client's new webapp Front-End code (**React**)
- Increased customer reach by **23%** by migrating client's CRM operations from Salesforce to **AEM 6.5 (HTML/CSS)** and **ACS**

Publicis Sapient

June 2019 – August 2019

Junior Associate Software Development Intern

Toronto, ON

- Improved client's internal performance by creating KPIs for various metrics using **ElasticSearch** for data & **Kibana** for display
- Automated parsing, processing & upload of data using **Java**, **Python**, **Maven**, **Jenkins**. Data extraction using **SQL** and **Timelion**
- Worked on Back-End side of internal project used to match potential marketers with influencer using **Python** and **Flask**

Sensequake

January 2019 – May 2019

Software Engineer Intern

Montreal, QC

- Doubled speed of sensor-to-gateway file upload using **C** (sensor) and **Python** (IoT gateway) in conjunction with STM32 library
- Improved **reliability** & **recovery** by implementing a four-second watchdog reset functionality for sensors and gateway
- **Doubled** maximum sensor sampling performance by implementing **488 Hz** sensor sampling rate using sensor internal clock

Engineering Projects

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

- Led a team of three to the implementation of a **Naïve Bayes** Machine Learning Model from scratch using native Python
- Implemented algorithm to support **Gaussian**, **Bernoulli**, and **Multinomial** likelihoods in order to support all data types
- Obtained the following prediction accuracy: Adult Salaries (83%), Breast Cancer (83%), Hepatitis (87%), Ionosphere Color (80%)

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

- Led a team of four to the design and implementation of **E/R** and **Relational** models for an entertainment ticket center system
- Created, updated, and edited all required tables in a **PostgreSQL** database, filled with hundreds of created records using **SQL**

Covid-19 Retail Shopping App

- Worked in a team of three to build Database (**Amazon Aurora** using **MySQL**) and Back-End (**NodeJS**) stack for application
- Implemented 4-layered stack to connect Database to Front-End: **API** layer, **Business Logic** layer, **SQL** layer and **Data** layer

