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### **SUMMARY**

- Third year Software Engineering student experienced in multiple programming languages
- Advanced project-based programming experience with Python, Java and C in Unix environment
- Comprehensive understanding of Data Analytics, Machine Learning & NLP through projects and work experience

#### **EDUCATION**

**McMaster University** 

Sept. 2018 - April 2023

B. Eng - Software and Biomedical Engineering - (3.80/4.0 CGPA)

Hamilton, ON

Activities: iBioMed Society Tech Team, McMaster Engineering Competition (MEC)

Courses: Data Structures & Algorithms, Software Design, Databases, Digital Systems & Interfacing, Linear Optimization

## **EXPERIENCE**

**Software Developer** 

July 2020 - Present

Virtual

POCUSNEO
 Currently developing a Clinical Decision Support System (CDSS) app for Neonatal Hemodynamics

- Managing states of widgets using the BLoC pattern
- Translated initial design into modular Flutter app Languages/Tools: Flutter

## **Software Engineering Intern**

May 2020 - Aug. 2020

Coveo Montreal, Quebec

• Developed initial ML Config Service API framework for Profile Dynamic Configuration project

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- Implemented a new dimension for Profile Streaming and performed end-to-end validation
- Updated default behaviour of models to use on-demand dimensions only and developed an accompanying Bash script to automatically insert on-demand orgs in DynamoDB
   Languages/Tools: AWS - (DynamoDB, EC2, S3), Java, Scala, Spark Swagger

#### **PROJECTS**

#### NearBuy | JavaScript, React Native, MongoDB, Radar API

May 2020

- Mobile food app to support local restaurants during COVID19
- Implemented Radar's Geolocation API for Search and Distance
- Parsed .csv of restaurants into MongoDB and queried MongoDB on user search

# Veritech | Python, React, Azure, Django

Nov. 2019 - Feb. 2020

- Agorize: Al for Societal Impact Challenge Top 26 of 147 teams
- Parse user's query with Python's Beautiful Soup and requests module
- Data cleaning with NLTK, pandas and scikit-learn in Python
- Machine learning bias detection model built with Microsoft Azure's NLP
- · Web interface built with Django, React and HTML

# Grapht.ai | GCP, React, Node.js, MongoDB

Jan. 2020

- Skin graft classification using Kaggle dataset with GCP AutoML Vision
- Patient-Physician dashboard platform built with React and Node.js
- Aggregated data stored with MongoDB

Image Filtering | C Nov. 2019

- Input/output .ppm image file and convolution kernel file
- Applied image filtering techniques: Edge Detection, Sharpen, Blur

### **SKILLS**

**Languages**: Python, C++, C, Java, Scala, MATLAB, SQL **Frameworks**: Flutter, React/React Native, Django, Spark

Libraries: pandas, NumPy, NLTK, Matplotlib, scikit-learn, OpenCV