

# Eric Haggar

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## EDUCATION

### UNIVERSITY OF OTTAWA | BSC IN COMPUTER SCIENCE AND BASC IN MECHANICAL ENGINEERING

Expected Graduation Date: Dec 2019 | GPA: 3.7/4.0

- **Awards:** Dean's Honour List Award (2016-2018)
- **Relevant courses:** Computer Architecture I, Data Structures and Algorithms, Digital Systems, Discrete Math, Java, Operating Systems, Programming Paradigms, Python

## SKILLS

### PROGRAMMING LANGUAGES:

Python • Java • Go • JavaScript

### TOOLS & FRAMEWORKS:

Git/Github • React • Node • Flask • MongoDB • Firebase

## WORK EXPERIENCE

### JABIL – SOFTWARE DEVELOPER INTERN (AUTOMATION) | PYTHON, MONGODB

May 2019 – Aug 2019 | Ottawa, ON

- Developed a **Python** application to categorize data and store it in **MongoDB** to analyze using **PowerBI**.
- Implemented **Python APIs** to interface with multiple optical instruments within the same **Local Area Network**.
- Created **Desktop User Interface (UI)** features to connect, fetch data and display graphs from optical devices using **PyQt**.
- Designed a **Data Model** to format collected data from hardware products under test.

### CURTISS-WRIGHT – SOFTWARE DEVELOPER (CO-OP) | BATCH

May 2018 – Aug 2018 | Ottawa, ON

- **Reduced** creation of bootable OS images by **80%** by developing an automated solution to modify **Kernel** configurations.
- Scripted in **bootloader** to determine register values, connected devices and allocate memory.
- Investigated device drivers to improve **Board Support Package API** testing on VxWorks **Real-Time Operating System**.

## PROJECTS

### HEYPAL – TWITTER SENTIMENT ANALYSIS TOOL | REACT, NODE

Created at uOttaHack II

- Performed sentiment analysis on twitter posts using the **Twitter API**.
- Displayed the sentiment analysis scores in a **React** app using **NodeJS Express** routing.

### FOODSCRAPS – FOOD PRODUCERS DATA ACQUISITION TOOL | PYTHON, JAVASCRIPT, HTML, CSS

Created at CANDEV Data Challenge (2018 Winner)

- Web scraped Glassdoor and a Food Recalls database using **Selenium**.
- Developed a scoring system algorithm to determine non-compliant food companies.
- Displayed food producers' locations on a webpage using the **Google Maps API** and **Firebase**.

### COPTICYOUTH.CA | REACT, FLASK, MONGODB

Rebuilding Current Website

- Developed authentication feature using **Python**, **REST API**, **JSON Web Tokens** and **MongoDB**.
- Designed front-end using Ant Design, a **React** UI framework.