Eric Haggar

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SKILLS

PROGRAMMING LANGUAGES:
Python (proficient) • Java (proficient) • Go (prior experience) • JavaScript (beginner)

TOOLS & FRAMEWORKS:
Git/Github • React • Flask • MongoDB • Firebase • Selenium

WORK EXPERIENCE

JABIL – SOFTWARE ENGINEERING INTERN | Python, MongoDB
May 2019 – Aug 2019 | Ottawa, ON
- Developed a **Python** application to organize data and store it in **MongoDB** to analyze using **PowerBI**.
- Implemented **Python APIs** to interface with multiple optical instruments via **Local Area Network (LAN)**.
- Created **Desktop User Interface (UI)** features to connect, fetch data and display graphs from optical devices using **PyQt**.
- Designed a **Data Model** for collected data from production.

CURTISS-WRIGHT – SOFTWARE DEVELOPER (CO-OP) | Batch
May 2018 – Aug 2018 | Ottawa, ON
- **Reduced** creation of bootable OS images by **70%** 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 RTOS.

PROJECTS

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**.

HEYPAL – SOCIAL MEDIA DEPRESSION DETECTION TOOL | Python
Created at uOttaHack II
- Performed sentimental analysis on twitter posts using the **Twitter** and **Google Cloud Natural Language** APIs.
- Created emotional analysis algorithms to detect signs of depression in a user's posts.

COPTICYOUTH.CA | React, Flask, MongoDB
Rebuilding Current Website
- Developed authentication feature using **Python**, **REST API**, **JWT** and **MongoDB**.
- Designed front-end using Ant Design, a **React** UI framework.

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