

Eric Haggar

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EDUCATION

UNIVERSITY OF OTTAWA | BSc IN COMPUTER SCIENCE AND BAsC IN MECHANICAL ENGINEERING

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

- Dean's Honour List Award (2016-2018)

PROJECTS

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

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 uOttHack II

- Performed sentimental analysis on twitter posts using the Google Cloud Natural Language API.
- Created emotional analysis algorithms to detect signs of depression in a user's posts.

BAJA SAE PARAMETRIZATION – CAPSTONE PROJECT | MATLAB, SOLIDWORKS

- Designed a fully parametrizable off-road vehicle using SolidWorks and MATLAB.
- Built a user-friendly GUI to automate the parametrization process.

PATRISTICS – QUOTE APP | JAVASCRIPT

- Currently developing a quote app using React Native and Node.js Express Framework.
- Designing RESTful API endpoints to display quotes and tags from MySQL database.

WORK EXPERIENCE

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

May 2018 – Aug 2018 | Ottawa, ON

- Implemented a scalable solution to automate Kernel configurations and create bootable OS images.
- 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.

CANADIAN COAST GUARD – MECHANICAL ENGINEER (CO-OP) | AUTOCAD, SOLIDWORKS

Jan 2017 – Apr 2017 | Ottawa, ON

- Updated mechanical and electrical technical drawings of a Mid-Shore Patrol Vessel (MSPV).
- Conducted an engineering options analysis for the RCMP's Rigid Hull Inflatable Boats' (RHIBs) mounting frame.
- Communicated and worked with a design and manufacturing company to provide a mounting system that will support Pelican boxes onboard the RHIBs.

NATURAL RESOURCES CANADA – ASSISTANT TECHNICAL ADVISOR (CO-OP)

May 2016 – Aug 2016 | Ottawa, ON

- Computed energy efficiency scores for various building types using regression equations.
- Executed behaviour analysis on source factors affecting energy efficiency scores for buildings.
- Explored various options for the calculation of ENERGY STAR Scores' Data Center model.

PROGRAMMING LANGUAGES

Proficient:

Java • Python • Go • MATLAB

Familiar:

C • JavaScript • HTML • CSS • SQL

TOOLS & FRAMEWORKS

Proficient:

Git/Github, Firebase

Familiar:

React Native, Node.js, MySQL