

# MATTHEW HYEUN

mhyeun.me  
(289) 968-6783  
github.com/mhyeun  
jhyeun@uwaterloo.ca  
linkedin.com/in/matthew-hyeun

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## SKILLS

**Programming Languages:** Python, C++, C, HTML/CSS, JavaScript, Arduino  
**Frameworks:** ReactJS, Bootstrap, Slash, Pytest, matplotlib  
**Software and Tools:** Git, Agile, Jira, Eclipse, MS Visual Studio, AutoCAD, SolidWorks

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## PROFESSIONAL EXPERIENCE

### University of Waterloo

Waterloo, Ontario

*Backend Developer*

September 2019 – Current

- Developed back-end code using **Python and Java** for an online search engine product made to support family caregivers of individuals with dementia
- Incorporated **natural language processing (NLP)** in the search engine to improve accuracy
- Recipient of the President's Research Scholarship

### Ford Motor Company of Canada

Ottawa, Ontario

*Automation Developer*

May 2019 – August 2019

- Developed **Python scripts** using the Slash testing framework to automate manual test cases, **reducing test times** by an average of **90%** and eliminated the need for manual testing
- Performed **software testing** of existing scripts and hardware feature level testing
- Practiced **Agile** methodologies while working alongside 8 other developers

### Brock University

St. Catharines, Ontario

*Research Student*

September 2017 – December 2017

- Awarded the **Physics and Astronomy Award**, and the **Engineering Technicians Award**
- Conducted a study on celestial mechanics and developed **Python** code to create presentation visualizations through **matplotlib**

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## PROJECTS

### Driver Alert IoT Project

Python, Arduino, JavaScript

devpost.com/software/sleep-deprivation-prevention-iot-kit

Connected several sensors using IBM Cloud to detect drowsiness in drivers for a hardware hackathon by programming Arduino sensors, cameras, and FitBit heartbeat sensors with C, Python, and JavaScript, respectively.

### Daily Planner Calendar

JavaScript, ReactJS

github.com/JayceJung/planner

Developed a calendar app where users can input daily tasks for any date of their choosing. Features include a to-do list, completed tasks list, and local storage to remember previous inputs even on page refresh. Demo available on GitHub link.

### Personal Website

JavaScript, ReactJS

github.com/mhyeun/mhyeun.github.io

Developed a personal portfolio website using ReactJS, and other JavaScript libraries such as react-reveal and react-tabs to create animations and transitions.

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## EDUCATION

### University of Waterloo, Waterloo, Canada

*Candidate for BAsC in Mechatronics Engineering*

September 2018 – 2023 (Expected)

Cumulative GPA: 3.7/4.0

Relevant Courses: Algorithms and Data Structures, Microprocessors and Digital Logic, Computation