# **Hrithvik Alex**

/hrithvik-alex



hrithvikalex.me



/hrithvik-alex



halex@uwaterloo.ca



## **University of Waterloo Software Engineering**

### **X** SKILLS

Programming Languages: C, C++, Swift, Python, JavaScript, HTML, CSS, Matlab

Frameworks: Express, Node.js, XCode, MongoDB, CoreML, React, Keras

## </> PROJECTS

#### Fasionably (Starterhacks Winner) January 2019

- Created a Swift iOS app using CoreML, UIKit, and Cocoapods that reviewed user selected pictures of their wardrobe and classified them according to weather and style
- Implemented a **Keras** Convoluted Neural Network to classify pictures by clothing type at an accuracy of **89**%

#### YelpCamp

November - December 2018

- · Used the **Express** framework to create a **Node.js** web application which allows users to upload, rate, and discuss various camping site locations around the world.
- Implemented user authentication, a comments and reviews system, and user upload through **HTTP** requests
- Managed user and campsite data using MongoDB and Mongoose and styled with HTML/CSS

#### **Virtual Keyboard** September - November 2018

- Created a responsive touch keyboard that improved typing quality for arthritis patients
- Designed a React UI displayed on an LCD Screen and outputted keystrokes using the PyAutoGUI Python library
- $\cdot$  Used Arduino Uno to implement haptic feedback on key press through wired motors, written in  ${\bf C}$

#### WORK EXPERIENCE

#### **Programming Mentor**

#### **Coding Buddies**

Jan - May 2018

- Taught middle school children at Glenhaven public school programming fundamentals in **Python** such as I/O, conditionals, loops, etc.
- Created weekly programming lesson plans to teach children in an efficient manner that increased weekly content by **30**%

#### Lifeguard

June - September 2017

#### **Pro Recreation Management**

- Upheld the safety of pool patrons by enforcing proper pool rules and protocol for patrons and performing emergency **first aid** when necessary
- Performed daily pool maintenance and upkeep by vacuuming daily, testing chlorine and pH levels, and combating algae infections

#### **EDUCATION**

Bachelor's of Software Engineering 2018 - Present

**University of Waterloo** 

3.83 GPA