Benjamin Wilkins

University of Waterloo - Honours Computer Science 2022

(613) 863-6704

benjamin.wilkins@uwaterloo.ca

bwilkins.me

github.com/benajmin

in/benjaminwilkins99

Summary of Qualifications

Proficient: C, C++, Java, Python, Arduino

Familiar: Ruby on Rails, JavaScript, HTML, CSS, ROS, Bash, SQL

Work Experience

Junior Software Developer

Embotics   *February 2017 - June 2017*

- Developed user portal for hybrid cloud virtualization software allowing administrators to simplify and restrict end user access
- Implemented virtual machine controls using Java to grant users further customization of their virtual environment
- Designed and developed user interfaces using HTML, CSS, JavaScript and Primefaces to improve end user experience
- Worked as part of a small development team using Agile methodologies to meet strict deadlines and deliver a new product release to customers

Projects

ScoutShare   *February 2018 - Present*

- Developed web app using Ruby on Rails to encourage collaboration between scout groups when planning events
- Implemented databases using sqlite for storing scout groups and their upcoming events
- Designed user interface using Bootstrap to create a clean, elegant product

UW Sailbot

Automated Sailboat Design Team - Navigation   *September 2017 - April 2018*

- Implemented proper saiboat physics in simulator using Python and ROS to allow testing of navigation, which led to the discovery of fundamental errors in the algorithm
- Interfaced with various sensors with ROS and Arduino to allow collection and filtering of data

Plane Pointer   *October 2017 - February 2018*

- Built Arduino device to locate and point at nearest plane and display flight information on an LCD
- Developed Python script that calls multiple APIs to poll information about planes and airports
- Parsed Wi-Fi connection information using regular expressions for use with Google's geolocation API

Volunteer Experience

Scouts   *September 2010 - Present*

- Volunteered as an Otter Leader to prepare and run an educational and diverse program for a group of 5-7 year olds
- Elected Venturer Company President and was responsible for chairing meetings, ensuring distribution of weekly emails and representing the company in council and committee meetings
- Embarked on multiple international trips including volunteer construction work in Peru