Aidan Bowers

BASc Candidate,
Systems Design Engineering, 2024

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Summary of Qualifications

- Strong knowledge of CAD such as Solidworks and Autodesk gained through courses and projects
- Extensive programming experience with C++, PHP and JavaScript gained through various projects
- Keen and motivated learner with a focus on detail and accuracy
- Proven leadership abilities and collaborative teamwork skills
- Intrinsically motivated and dependable with a strong sense of initiative

Project Highlights

Hack the North | Sept. 2019

- Designed news web app that measures the "honesty" of news articles using Flask and React
- Implemented heuristic models to reliably determine honesty of news articles
- Collaboratively developed project in team of four, effectively delegating tasks to complete project before deadline

The "RAV Project" | Sept. 2017 – Dec. 2018

- Designed, programmed, and constructed quadcopter using Node.JS, Fusion360 and 3D-printers
- Built web user interface to control quadcopter using web sockets and a gamepad
- Troubleshot issues with a non-functional Makerbot 3D printer, returning it to a reliable state
- Hosted software on Raspberry Pi running Raspbian Linux to control drone.
- Researched components and created and presented funding pitch

Professional Experience

Software Testing, Engineer in Training (Co-op) | RouteThis | Jan. 2020 – April 2020

- Initiated and developed an iOS UI testing framework to perform unit tests and automated screenshot capture using the XCode cli, Bash, and Swift
- Performed testing of web, iOS and Android apps across multiple browsers and operating systems
- Corrected minor development errors in apps to reduce overall development time
- Actively engaged in a modified agile development model and sprint planning scrums

3D Printed Parts Model Maker | Agile Manufacturing | Feb. – Aug. 2019

- Post processed 3D printed models through part cleaning and QC
- Used CAD software to view, measure and inspect parts for QC and packaging
- Operated SLA 3D printers to maintain peak output

Teaching Assistant (Co-op) | Uxbridge Secondary School | Sept. 2018 – Jan. 2019

- Lectured highschool Computer Science students on fundamentals of programming using PHP
- Facilitated extra help, and 1 on 1 sessions to improve understanding of difficult concepts
- Serviced computers and resolved technology-based problems for school staff
- Led small group of students in research and purchase of parts for an extracurricular electronics project

Awards & Licenses

- Varsity Curling MVP, University of Waterloo (2020)
- Education Computing Organization of Ontario programming competition, Regional event winner (2018)
- Scouts Canada Chief's Scout Award (2015)
- Scouts Canada Award for Meritorious Conduct (2013)