



axma@edu.uwaterloo.ca





Skills

Languages

JavaScript; Python; C; C#

Tools

Angular; Firebase; Git; Jira; AWS; Unity; Node.js; Vue.js; scikit-learn; Arduino; Hyper-V; TypeScript; Sass; MATLAB

Education

University of Waterloo

Software Engineering

• Cumulative Average: 90.3%

 Received President's Scholarship of Distinction for admissions average over 95%

Experience

SOTI Inc. – Development Operations Intern

Summer, 2018

2018-2023

- Identified potential improvements to cross-platform compatibility
 - Tested the feasibility of upgrading build machines from PowerShell 5 to PowerShell Core
 - Configured virtual machines in *Hyper-V* as local agents, running production pipelines for continuous delivery
- Built a new process to code sign Windows Mobile applications as an alternative to a \$30,000 third-party API deal

SOTI Inc. – Research and Development Intern

Summer, 2017

- Built new UI components to allow clients to customize device details
 - Developed components for an Angular web application using TypeScript, HTML, CSS, and Sass
 - Fixed UI issues affecting cross-browser compatibility, working closely with QA
- Facilitated consistency across products by creating a style and design guideline

Prolexion (Grammar checking software startup) – Product Development Intern

Summer, 2016

- Presented a competitive analysis on technical functionality and user experience to the founders
- Increased team efficiency by creating a web application to automate the analysis of tests

Projects

DECA Online Member Hub

A web application built for business club members to practice multiple choice exams

- Parsed exams using Python scripts to automate adding exams, with over 90,000 questions in the database
- Implemented user login with emails via *Firebase*, allowing for progress tracking
- Provided access for over 150 active users by hosting the website on a web server (Nginx on Ubuntu AWS)

Dash no Jutsu

A running simulator where players move their virtual characters by running on the spot in real life – like a ninja

- Interfaced data from accelerometers using Arduino and the I2C protocol for serial communication
- Translated running speeds from the real world to virtual characters in *Unity* using *C#*
- Integrated code with other developers, implementing a speed controller for character models

Reddit News and Stocks

A project created for a data class - an attempt to correlate trends in news posts on Reddit and stock market indices

- Parsed over three years of historical data using **Python**, archiving data locally
- Preprocessed and analyzed data using a linear regression model with the scikit-learn library
- Created visualization tools using Vue.js, dynamically retrieving archived files