Connor Sweet

Undergraduate Student - 3B Computer Engineering - University of Waterloo

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Work Experience

Developer and Automation Specialist
Mach7 Technologies
January 2021 – April 2021

- Created Dart API allowing PostMessage requests through commands sent by external applications
- Developed Javascript API to aggregate performance metrics from onscreen video in a clinical viewer
- Built infrastructure for frame rate performance testing in Java
- Maintained and updated Selenium automation suites over numerous product releases
- Implemented spine label DICOM markup manipulation through console commands in clinical viewer

Developer and Test Specialist
Client Outlook Inc.
May 2019 – Dec 2019, May 2020 – August 2020

- Implemented PostMessage API functionality for creating and manipulating markups on studies through external applications
- Added utilities to Maven automated test suites to perform screen layout validations
- Developed external Dart application to control an embedded clinical viewer through PostMessage requests
- Implemented functionality within an internal Javascript API to notify the viewer of requests for actions from external applications
- Contributed to clinical viewer product in compliance with PureMVC framework to introduce functionality necessary for validation

Hardware Developer
Canadian Tire Innovations
January 2019 – April 2019

- Developed memory-efficient C code to optimize control over a robotic, embedded system
- Modified and improved API for microcontroller to interface with robotic arm
- Conceptualized and designed 3D prototype models for a series of robotic systems using SolidWorks

Robot Process Automation Developer
The Co-operators Group Limited
April 2018 – August 2018

- Created chat-bot using MS Bot Framework in Node that receives XML input to prompt questions and validate user response type
- Coded and deployed web-service for the chat-bot to store user responses in MS SQL
- Developed an API for the web-service to interact with MS SQL
- Wrote VB.NET script to pull information from server and populate internal systems on Guidewire and Oracle frameworks

Skills

Languages

- C / C++
- C#
- RISC-V
- Java
- Javascript
- Dart
- Python
- MATLAB
- SQL
- Bash

Tools

- Node.js
- MS Bot Framework
- MS SQL Server
- Git
- Vim
- Arduino
- ROS
- Solidworks
- AutoCAD

Education

Candidate for BASc: Computer Engineering
University of Waterloo
2017 – 2021

- Candidate for Artificial Intelligence Option
- Elected Class Academic Representative
- Former Member of Waterloo BioMechatronics and Robotics Teams

Projects

- Robot in 3 Days - First Robotics Competition
- Arduino-Powered Audio-Movement Sensor
- Guitar Playing Robot
- Game of Risk
- Charity Locator and Recommender - Hack the North Entry

Interests

- Music Production
- Vocals
- Guitar
- Piano
- Bass Guitar
- Volleyball
- Chess
- Circuits
- Robotics
- Cooking