Christopher Dombele

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# EDUCATION

## WEntworth institute of technology | Boston, ma August 2020

* Bachelor of Science in Computer Science
* Minors in Computer Networking and Applied Mathematics
* Overall GPA: 3.150

# EXPERIENCE

**Delsys inc.**

**Software Engineer Intern SEPTEMBER 2019 –** **DECEMBER 2019**

* Built Android and PC Applications
* Created applications to interface with wireless EMG sensors
* Used Xamarin with C# to update existing client facing applications
* Tested device performance and overall data throughput with Bluetooth

**Research Position JANUARY 2019 – APRIL 2019**

* Researched how EMG, EKG, EEG data can help patients and health enthusiasts under the direction of Professor Chen-Hsiang Yu
* Built an EMG sensor with MyoWare Muscle Sensor, Arduino Uno, and NRF8001 Bluetooth technology
* Engineered a mobile health app where EMG data is transmitted, graphically displayed, and analyzed
* Published Paper: Christopher Dombele and Chen-Hsiang Yu. “*MusCare*: A Mobile Design for Muscle Monitoring.” *The 2020 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2020.

# PROJECTS

## LANGUAGE APP

**Independent Project**

* Engineered a language application for the Android operating system using Java
* Designed application to consist phrases, colors, and numbers of a language that teaches the user

## Media list

**Independent Project**

* Developed a media list desktop application to keep track of various media that allows for various tabs to be made for different lists
* Constructed with Electron, HTML5, CSS3, and JavaScript

## mit hackathon

**Group Project**

* Built a web application that converts speech to text then summarizes the text using HTML5, CSS3, React.js, and Watson Speech to Text API
* Cultivated the ability to work with a team to complete a project

# SKILLS

## Coding Languages

|  |  |
| --- | --- |
| * Java * JavaScript * Python * C# * C++ | * React * Dart * MySQL * HTML5 * CSS3 |

## Software

|  |  |
| --- | --- |
| * Eclipse * VSCode * Git * Flutter * Xamarin | * Windows 10 * Linux / Unix * macOS |

## Hardware

* Raspberry Pi
* Arduino
* MyoWare Muscle Sensor
* NRF8001