Kenny Miu

Profile

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Programming Languages and Frameworks

HTML/CSS/React

NodeJS

Python

Swift

JavaScript

MATLAB

Tools

Arduino

Raspberry Pi

SolidWorks

Skills and Labs

Biopolymers Synthesis

- Both Starch and Gelatin based

Tensile Testing

Electroplating

- Cu onto galvanized Zn ornament

Soldering

Education

University of Waterloo

Candidate for BASc degree in Nanotechnology Engineering

Sep 2019 - Apr 2024

Technical Experience

iOS Developer
Sep 2018 – Jun 2019

St. Augustine CHS, Markham ON

Swift, Objective C, XCode, Simulator, Firebase Database

- Created and programmed the entire school app.
- Features include push notifications for office and class announcements and a centralized list of all school clubs and their personalized club page
- Worked in a team of 4 to design the User Interface (UI) and ensure both Android and iOS designs are in sync.
- Developed the iOS side individually

FIRST Robotics Mentor
Jan 2018 – Dec 2018

LogicFusion, Toronto, ON

LEGO NXT, EV3, C

- Mentored a team of 8 students in Grades 3-6 that won the competition
- Created a modular design to allow the team to swap parts easily to successfully complete each challenge
- Optimized the route to complete every challenge in the shortest time possible

Computer Instructor
Sep 2015 – Jun 2019

Milliken Mills Community Centre, Markham ON

NXT Robotics, Arduinos, Java, Python

- Taught students in Grades 3-8 to design and program robots for specific challenges
- Produced and implemented language-agnostic lessons for various programming concepts such as loops and OOP
- Worked with and taught different types of software such as animation studios, programming IDEs, video editors

Projects

SolidWorks Design Projects
SolidWorks

- Worked with a team of 4 to create a fully functioning soapbox car
- Designed a trampoline with safe walls targeted for children

Personal Internet Security Project
Raspberry Pi 3, Various Extensions

- Created a DNS sinkhole to prevent Internet tracking
- Rerouted all personal devices to the DNS sinkhole for privacy
- Designed a Home Media Centre for entertainment

Personal Website
React, JavaScript, HTML, CSS, npm

- Uses the Single Page Application architecture
- Showcases recent projects and interests