

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

- 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

- Self-taught and programmed the entire school app while maintaining a 95% average
- 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
- Managed transition of project and onboarded new developers. Ensured new team had good synergy
- 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 regional competition and advanced to provincials
- Created a modular design to allow the team to swap parts easily to successfully complete each challenge

Computer Instructor

Sep 2015 – Jun 2019

Milliken Mills Community Centre, Markham ON

NXT Robotics, Arduinos, Java, Python

- Adapted lesson plans to accommodate students of varying skill levels. Ensured all students built and programmed robots to complete their personally designed challenges
- Produced and implemented language-agnostic lessons for various programming concepts such as loops and OOP

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