# Kenny Miu

## Profile

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## Programming Languages and Frameworks

HTML/CSS/React
NodeJS
Python
Swift
JavaScript
SQL
MATLAB

## Tools

Arduino
Raspberry Pi
SolidWorks

## Skills and Labs

Soldering
Electroplating
Biopolymers Synthesis
Tensile Testing

## 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 programed 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