# Kenny Miu

## Profile

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## Programming Languages and Frameworks

React
NodeJs
Python
Swift
JavaScript
MATLAB

## Tools

Arduino
Raspberry Pi
SolidWorks

## Lab Skills

Soldering
Electroplating
Oscilloscope
Digital Multimeter

## Education

University of Waterloo

Candidate for BASc degree in Nanotechnology Engineering

Sep 2019 - Apr 2024

## Work Experience

### Full Stack Developer                    May 2020 – Aug 2020

Honeybee Hub, Toronto ON
*React, NodeJs, Typescript, MongoDB, Express*

- Developed an admin page that displays key performance indicators and handles services such as sending custom push notifications to encourage user participation
- Designed and programmed a survey builder and survey responder for researcher prescreening
- Survey Builder features include drag and droppable questions, response logic and validation checks, and autosaving
- Created and integrated all related APIs such as creating, updating, searching, and deleting surveys and responses

### 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

### 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
- Managed transition of project and onboarded new developers. Ensured new team had good synergy

### Personal Website

*React, JavaScript, Netlify*

- Showcases recent projects and interests
- Deploys from GitHub to allow for quick modification