

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

Lab Skills

Soldering
Electroplating
Oscilloscope
Digital Multimeter

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