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# **SKILLS**

**Domain:** Mobile Developer (iOS development and Android development)

Languages: Swift, Java, C, C++, Python, CSS, HTML

Technologies: Firebase, Cocoatouch

## **PROJECTS**

#### **BCSS Wildcats iOS App (Swift)**

Dec. 2018 - Current

- Singlehandedly designed and developed a smart planner that manages the academic life of over 450 students.
- Enhanced productivity by creating features that managed schedules, gave access to realtime data on events, and
- Implemented Firebase's Realtime Database to allow staff to remotely update school information.
- Collaborated and consulted with teachers and students to deliver an extracurricular explorer feature that improved student engagement.

### Self-Operating Forest Fire Research Drone (Python)

Sept. 2019 - Dec. 2019

- Teamed up with classmates to engineer a drone that searches for forest fires and renders a heat map around the fire using image data.
- Implemented the heatmap visualizer that produces accurate visual outlines of forest fires by using Matplotlib and Seaborn.

### Joke Lab Android App (Java)

Dec. 2016 - Jan. 2017

- Independently designed and built a joke generator that displays emojis using Core Animation to create an experience for the user to enjoy or share.
- Installed by over 100 users while having a 4.9 rating on the Google Play Store.
- Integrated non-intrusive **Admob** banner ads for monetization while maintaining minimal user interface.

## **EXPERIENCES**

# TEDxYouth@DeerLake, Director of Technology

Sept. 2018 - June 2019

- Burnaby, BC
- Programmed a fully responsive website with CSS, HTML, and basic JavaScript.
- Coordinated and cooperated with team members to setup a successful event that raised over \$750 in ticket sales.
- Assessed speaker applications and chose speakers that pushed our theme of Breaking Barriers.

#### Science World, Robotics Volunteer

Sept. 2017 - May 2019

Vancouver, BC

- Facilitated the teaching of basic robotics and programming at an advanced robotics club (ages 8-11).
- Curated and prepared lessons that bettered the understanding of programming language Robot C, robotic sensors, and motors.

## **EDUCATION**

**University of Waterloo** 

Sept. 2019 - Current

B.SE. Candidate for Bachelor of Software Engineering 2024 GPA: 3.5