

FRANK FAN

COMPUTER SCIENCE
UNIVERSITY OF WATERLOO

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SKILLS

LANGUAGES: Java, Swift, HTML, CSS, C/C++, Racket

SOFTWARES: SwiftUI, MATLAB

PROJECTS

MyProfile

JAN 2020

- Built an **iOS** app in **Swift** that allowed users to create their detailed, customized, personal profile
- Implemented navigation views and links, sheets, image collectors, text fields, toggle switches, and date pickers
- Constructed the user interface in **XCode** using **SwiftUI**

Personal Webpage frankfan8.github.io

DEC 2019

- Constructed a personal webpage in **HTML** and styled in **CSS**
- Implemented fluid grids, forms, lists, and images

PEGASIS - Robotic Arm Soil Sampler

JAN 2019

- Built a fully autonomous arm and claw able collect a soil sample up to 0.5m away within 4cm accuracy using swivel motors and an android phone camera
- Used an **arduino** and **C++** in conjunction with multiple sensors to process the colour, pH, mass, and spectrometry of a soil sample

Blank Crossword

FEB 2018

- Created a variation of the traditional crossword in **Java** that utilized object-oriented and event-driven programming
- Implemented **Java Swing** to design the interface

EXPERIENCE

DeltaHacks VI

JAN 2020

- Participated in DeltaHacks VI hackathon and implemented an image recognizer using a machine learning model in Create ML
- Implemented hundreds of photos of animals to train the model and then tested the model to 100% precision

EDUCATION

University of Waterloo

2019 - 2024

Candidate for Bachelor of Computer Science

Euclid Mathematics Contest

2019

Placed top 4%

INTERESTS

- Anatomy
- Machine learning
- Basketball