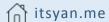
# YAN KE

#### **2A Software Engineering** at University of Waterloo

yske@uwaterloo.ca





itsyan.me 🔚 github.com/yanske1



+1 (647) 262 0026

### Skills

- Proficient in C/C++, Java, Python, JavaScript, HTML / CSS and SQL
- Experience with web / mobile frameworks: Android, ReactJS, Flask and PostgreSQL
- Familiar with tools including Git, GDB, Photoshop, Jira and Unix
- Curious and ambitious individual, strong ability driving projects to completion

# **Experience**

## Aterica Digital Health – Software Engineering Intern

May 2017 – Aug 2017 Waterloo, Canada

- Developed and maintained Bluetooth, UI and networking features for our Android app
- Created internal test management tools and scripts using ReactJS and Python
- Implemented support for new features in our Java infrastructure
- Assisted with database management, UI design, and software testing

## BioMechatronics Student Design Team – Developer

Sept 2016 – Present Waterloo. Canada

- Developed processing filters in C++ for biomedical signals from myoelectric sensors
- Trained a linear classifier for Raspberry Pi to control a robotic hand using Python

# **Projects**

itsyan.me/#portfolio

#### ScavengerHunt

- Designed a web, android and server application to host large-scale scavenger hunts
- Deployed Flask server to handle socket and routing requests, stores game data
- Developed Android app connecting players to scavenger hunt games hosted on our server, utilized Cloudinary and Google Maps API
- Created interface for setting up and tracking games using ReactJS

#### **EasyPassword**

- Developed a password management application using facial recognition
- Implemented cryptographic hash and symmetric encryption using OpenSSL
- Used OpenCV to implement eigenface facial recognition in C++

#### **APPC Wind Tunnel**

- Constructed a wind tunnel to measure aerodynamic forces on 3-D printed airfoils
- Integrated Arduino microcontroller with Matlab to create GUI
- Designed wind tunnel frame in AutoCAD, interfaced sensors to calculate various forces

#### Spoilers Suck!

- Created a Chrome extension in **JavaScript** that filters out Game of Thrones spoilers
- Developed scripts and server in **Python / Flask** to check if a text or image is a spoiler

# **Education**

#### University of Waterloo

Sept 2016 – Present

- Candidate for Bachelor of Software Engineering, expected graduation in 2021
- 96% cumulative average, first in class for Fall 2016 and Winder 2017 term

## **Interests**

- Hopeful side owner of a small café in the near future
- Cooking, Judo, photography, badminton, trying new tea and coffees