

# YAN KE

2A Software Engineering at University of Waterloo

 [yske@uwaterloo.ca](mailto:yske@uwaterloo.ca)  [itsyan.me](https://itsyan.me)  [github.com/yanske1](https://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

See more at  
[itsyan.me/#portfolio](https://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 Winter 2017 term

## Interests

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