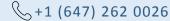


#### **Software Engineering** at University of Waterloo

yske@uwaterloo.ca







## Skills

- Proficient with Java, Python, C/C++, JavaScript, Scala, HTML / CSS and SQL
- Experience with web / mobile frameworks: Android, ReactJS, and Flask
- Familiar with tools including Git, GDB, Jira, Unix, Latex and Photoshop

# **Experience**

### Aterica Digital Health – Software Engineering Intern

May 2017 – Aug 2017 Waterloo, Ontario

- Developed and maintained new Bluetooth, UI and Networking features for our Android app
- Improved development workflow by creating test management tools, database scripts and data visualization platform using Python and ReactJS
- Optimized our custom Android Bluetooth stack, increasing Bluetooth stability and reducing latency with our hardware
- Implemented support for new mobile features in our Java infrastructure
- Involved in feature / UI designs; produced code in a test-driven and agile environment

### BioMechatronics Student Design Team – Developer

Sept 2016 – Present Waterloo, Ontario

- 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

## ScavengerHunt (7)

- Designed a web, Android and server application to host large-scale scavenger hunts
- Deployed Flask server to Heroku that handles socket and API requests
- Developed **Android** app connecting players to scavenger hunt games hosted on the server and tracking their progresses, utilized Cloudinary and Google Maps API
- Created an interface for setting up and tracking games using ReactJS

## EasyPassword $\Omega$

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

# Spoilers Suck! •

- Created a Chrome extension in JavaScript that traverses the DOM tree, makes RESTful calls to the server and filters out *Game of Thrones* spoilers
- Architected backend APIs using Python / Flask to predict if a text or image is a spoiler

#### **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

# **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, badminton, trying out new tea and coffees