YAN SONG KE

Mechatronics Engineering at University of Waterloo

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in www.linkedin.com/in/yanske
○ www.github.com/yanske1
⊕ www.yanske.me

Skills

Languages: **C++** (Proficient, 3+ years), **Python** (Proficient, 2+ years)

Web technologies: HTML, CSS, AngularJS

Tools: Git, SOLIDWORKS, AutoCAD, Arduino, RobotC, Bootstrap, Jekyll

Projects

Syncin | *devpost.com/software/synchin*   Sept 2016

- iOS and web application created to streamline networking in job fairs using **iBeacons**
- Exchanges contacts, resumes and key information between job hunters and employers
- Designed and pair programmed the web application using **AngularJS** and **Firebase**
- Led team discussions through iterations of design process and found opportunistic code reuses for depreciated code

APPC Wind Tunnel   Dec 2015 – Feb 2016

- Designed and constructed a wind tunnel capable of detecting aerodynamic forces on airfoils in real time
- Controlled using **Arduino** microcontroller and interfaced through a **MatLab** GUI

NXT Mindstorm Table Tennis Trainer   Nov 2016 – Dec 2016

- Designed an autonomous table tennis ball shooter using 3-D printed gears, laser-cut acrylic, and NXT sensors
- Programmed and created user interface in **RobotC – C based language**

Personal Website | *yanske.me*   Dec 2016

- Created an online portfolio using **HTML**, **CSS** and **Bootstrap**
- Built using **Jekyll on Ruby**, used **liquid markup** to create modular projects section

Experience

Machine Learning Engineer – UW BioTron (Powered Arm)   Sept 2016 – Present

- Ongoing, implemented filters in **C++** for biomedical signals received from Myo
- Used **support vector machine** to train data sets in **Python**

Director of Web Operations – TOPS Program Marc Garneau C.I.   Sept 2012 – June 2016

- Executive of TOPS program website, mentored and managed developer team
- Created online registration and handled user data during admissions period

Real Estate Assistant – AimHome Realty Inc. Brokerage   July 2015 – Sept 2016

- Communicated with clients and lawyers to finalize documents and sales
- Researched and documented property information, maintained agent's website

Education

University of Waterloo   Sept 2016 – Present

- Candidate for B. ASc., 95.5% cumulative average
- Relevant courses: *Digital Computation, Data Structure and Algorithms*

Marc Garneau C. I.   Sept 2012 – June 2016

- Enrolled in Talented Offering for Programs in the Science (TOPS)

Interests

- Guitar, cooking, photography, Judo, tea blending
- Hopeful owner of a small café in the near future