YAN KE

1B Mechatronics Engineering at University of Waterloo

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⬤ www.yanske.me

Skills

Proficient: C/C++, Python
Prior Experience: 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**
- 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

EasyPassword   Dec 2016 – Present
- Implemented SHA256 hash using **OpenSSL** and public key encryption to store data
- Currently using **OpenCV** to implement user facial recognition in **C++**

APPC Wind Tunnel   Dec 2015 – Feb 2016
- Designed and constructed a wind tunnel capable of detecting atmospheric data and aerodynamic forces on airfoils in real time
- Programmed and integrated an **Arduino** microcontroller with **MatLab**

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**

Personal Website | *yanske.me*   Dec 2016
- Created an online portfolio using **HTML**, **CSS** and **Bootstrap**
- Built using **Jekyll**, used **liquid markup** to create modular projects section

Experience

Machine Learning Engineer – UW BioTron (Powered Arm)   Sept 2016 – Present
- Implemented filters in **C++** to process biomedical signals received from Myo
- Currently using **support vector machine** to train data sets in **Python** and **C++**

Director of Web Operations – TOPS Program Marc Garneau C.I.   Sept 2012 – June 2016
- Executive of the 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., expected graduation in 2021
- Relevant courses: *Digital Computation, Data Structures and Algorithms*
- 95.5% cumulative average

Interests

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