

# Si Te Feng

fengsite@hotmail.com  
www.github.com/sitefeng  
www.sitefeng.info

## SKILLS SUMMARY

**Languages:** JavaScript, Ruby, Swift, Python, Objective-C, C, C++, C#, Matlab

**Technologies:** NodeJS, Ruby on Rails, React Native, Native iOS, ROS, Git, Vim, Unity

## WORK EXPERIENCE

**Aura Health - Software Engineer**, San Francisco, CA **Jan 2018 – present**

- Led the development of the Aura mobile apps and tripled user conversion rate in 6 months by implementing more than 60 A/B experiments. Helped to design and revamp the main user flow.
- Created client apps in React Native and backend APIs in Node.js to support client functionalities.

**Castle Global - Software Engineer - iOS**, San Francisco, CA **Aug 2017 – Dec 2017**

- Worked closely with backend and design teams to create a seamless user shopping experience on iPhone
- Helped to significantly improve user retention and satisfaction for the e-commerce app

**Paperless Post - Software Engineer**, New York, NY **May – Aug 2016**

- Developed new features and enhanced existing features for the Paperless Post iPhone app
- Worked on a simplistic neural network model for product recommendation using TensorFlow Python API

**Clearpath Robotics - Mobile Robotics Application Engineer**, Kitchener, ON **Sep – Dec 2015**

- Developed robotics vision software in Python and C++ using ROS platform
- Written scripts for predicting operational parameters for the OTTO autonomous transport vehicle

**Pebble - Software Engineer**, Palo Alto, CA **Jan – Apr 2015**

- Used MVC and MVVM design patterns to develop new features for the Pebble Time iPhone app. Features include onboarding, My Pebble locker, and calendar event synchronization

## PROJECTS

**HappenVR**, [HappenVR.com](http://HappenVR.com) | Mechatronics Engineering Capstone **Sep 2016 – May 2017**

- Software lead for designing and building a virtual reality haptics feedback glove for stroke therapy
- Created a 3D user interface on Unity that integrates with Oculus, Leap Motion, and the glove prototype

**AskDonna.org** – Get the personal advice you need, anonymously **Jun 2017 – Dec 2017**

- Created a platform that allows anonymous users to ask questions anonymously and privately
- Designed and built the website using Ruby on Rails, React.js, deployed on AWS EB

**Hack the North**, University of Waterloo **Jul 2014 – Sep 2015**

- Helped to organize Canada's largest hackathon at University of Waterloo
- Led a team of iOS developers to build and launch the Hack the North iPhone app from scratch.
- App enabled hackers to request for mentors on demand and receive real-time event updates.

**Autonomous Turtlebot**, University of Waterloo **Jan 2017 – Apr 2017**

- Used Microsoft Kinect, GPS signal, and odometry to localize and map the environment with SLAM on ROS.
- Applied path generation and A\* search algorithms to navigate robot to destination while avoiding obstacles
- Used sensor fusion and PID control to process noisy input data and smoothly control robot's actions

## EDUCATION

**University of Waterloo**, BAsC, Mechatronics Engineering, Waterloo, ON **Sep 2012 – Apr 2017**

- **Relevant Courses:** Algorithms & Data structures, Image Processing, Digital Control, Microprocessors, Computer Networks, Operating Systems