

Si Te Feng

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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 backend APIs in Node.js to support client functionalities.

Castle Global - Software Engineer, 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

Clearpath Robotics - Robotics Software Engineering Intern, 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 Engineering Intern, Palo Alto, CA **Jan - Apr 2015**

- Used Objective-C with 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 | UW 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 – Get the personal advice you need, anonymously **Jun 2017 – Dec 2017**

- Created a platform that allows anonymous users to ask questions anonymously and privately
- Created the website from scratch 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

MetroArm, TreeHacks, Stanford University **Feb 2015**

- Designed and built a 6 DOF servo robotic arm controlled by Leap Motion and Arduino
- Grand prize winner of TreeHacks 2015

EDUCATION

University of Waterloo, BSc, Mechatronics Engineering, Waterloo, ON **Sep 2012 - Apr 2017**

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