Sophia Li

PROFILE

I like computer vision and robots.
But there's nothing I can't do if given StackOverflow and enough time to learn. ;-]

PROFESSIONAL EXPERIENCE

Amazon Robotics   N. Reading, MA
Software Developer   *July 2017 - Present*

Working on next generation warehouse robotics using machine learning.

Software Intern   *May 2016 - Aug 2016*
Using AWS services (DynamoDB, SQS, S3) and Java, created a cloud-based service suing distributed computer vision and supervised machine learning.

Apple Inc   Cupertino, CA
Camera Testing Intern   *May 2015 - Aug 2015*

Wrote software in Python/bash/C++ to automate various camera validation tests.

Olin Senior Capstone Program   Needham, MA
Locus Robotics Team - Student Assistant   *Jan 2016 - May 2016*
Wrote movement suite for UR10 robot arm to enable collaboration with human operators in a factory setting.

Boeing Team - Student Assistant   *Mar 2015 - May 2015*
Wrote indoor localization code for mobile robotics using 2D fiducials.

ROBOTICS PROJECTS

Edwin: Intuitive co-worker robots
Used Robotic Operating System (ROS) and OpenCV to create a demo with an UR5 arm demonstrating competitive tic-tac-toe with a human opponent.

Jimmy: Intel 20th century robots
Used ROS, C++, OpenCV and CMU Sphinx to write a variety of packages that allowed general human robot interaction with a humanoid robot (Jimmy) that included face tracking, speech recognition, and random human-like robot posture generation.

Olin transatlantic robotic tuna

Created an underwater navigation system that used structured light and fiducials for localization and object avoidance.

EDUCATION

Olin College of Engineering   **Needham, MA**

Bachelor of Science, 2017   *GPA: 3.74*

Course Assistant

Software Design, Computational Robotics, Computer Architecture, Fund. Of Computer Science

Selected Previous Classes

Software Systems, Discrete Math, Mechanical Dynamics, Quantum Physics, Semiconductor Devices

ADDITIONAL SKILLS

> Knows: Python, C++/C, Java, Matlab, OCaml, Verilog
> Experienced with OpenCV and ROS packages for use in computer vision and indoor navigation
> Experienced with AWS Java API and designing service based architecture
> Fluent in spoken Mandarin Chinese, professional fluency in French
> Plays acoustic guitar, violin, and piano. Likes to bake.

THANKS FOR READING, HAVE A NICE DAY!