4032 8th Ave NE B-5
Seattle, WA 98105

Thomas Weng

(917) 280-0039
http://thomasweng.com ⧉

Education

New Haven, CT	**Yale University**	**Fall 2011 − May 2015**

- B.S. in Computer Science with Distinction, B.A. in Economics. GPA: 3.77.
- Awarded C.S. Research Prize for senior thesis ⧉ on real-time robot perception of human gestures.

Employment

Research Staff	**University of Washington**	**Jul. 2017 − Present**

Human-Centered Robotics Lab

- Built object recognition and annotation pipeline using a PR2 and projector for research study on in human-robot interaction. `C++, Python, OpenCV, ROS`

Software Engineer 2	**Microsoft Corporation**	**Sep. 2015 − Jul. 2017**

- Developed enterprise Q&A feature on Bing search for Office365 customers. `C#, React, TypeScript`
- Won the Executive Spotlight Award as one of the presenters at a Bing-wide pitch event.
- Shipped 9 distinct U.S. election-related answers ⧉ over the 1-year election cycle. `TypeScript, D3.js`

Student Developer / Tech	**Yale University**	**2012 − 2015**

- Refactored full-stack Rails app and wrote integration tests to reduce technical debt. `Rails, JS`
- Led team of four technicians repairing student computers; moved to developer role in early 2014.

Software Engineer, Intern	**Microsoft Corporation**	**Summer 2014**

- Delivered WordPress plugins for Bing website widgets. `PHP, JS`

Program Manager, Intern	**Microsoft Corporation**	**Summer 2013**

- Managed the design and development of the first Bing Ads API support page.

Technical Experience

Publications	**Yale Social Robotics Lab**	**2014 − 2015**

- Admoni, **Weng**, et al. "Modeling communicative behaviors for object references in human-robot interaction." *ICRA*. IEEE, 2016. ⧉
- Admoni, **Weng**, et al. "Robot nonverbal behavior improves task performance in difficult collaborations." *HRI*. IEEE, 2016. ⧉

Projects

- **Udacity Robotics Nanodegree (2017)**. Currently enrolled. `C++, Python`
- **Autonomous mobile robot (2016)** ⧉ . Building a low-cost, intelligent agent from scratch. Demoed at Microsoft's Robotics Day. `Python, OpenCV, Robot Operating System (ROS), Raspberry Pi`
- **Thesis (2015)**. On robot gesture recognition. `Python, C#, OpenCV, ROS, Kinect v2, Nao`
- **Intelligent Robotics Lab project (2014)**. `Baxter robot, Python, ROS, OpenCV`

Additional Experience

Yale Alley Cats a cappella	**Head Tour Manager**	**2012 − 2014**

- Managed domestic and international tours for one of the most well-traveled college a cappella groups.

Languages and Technologies

- `C++/C; Python, C#.NET; Java; JS (React, TypeScript); SQL; R`