

# Jeremy Ong

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## EDUCATION

**Carnegie Mellon University** Pittsburgh, PA May 2020  
*Bachelor of Science in Computer Science, GPA: 3.80/4.0*  
**Olympia High School** Olympia, WA June 2016  
*Diploma with Honors, GPA (unweighted): 3.99/4.0*

## RELEVANT COURSEWORK

15-213 Introduction to Computer Systems	15-210 Parallel/Sequential Data Structures and Algorithms
10-405 Machine Learning with Large Datasets	15-251 Great Theoretical Ideas in Computer Science
10-601 Introduction to Machine Learning	15-312 Foundations of Programming Languages

## SKILLS

Python, C++, Tensorflow, Flask, Node.js, React, Redux, Qt

## EXPERIENCE AND ACCOMPLISHMENTS

Teaching Assistant for 10-601 Introduction to Machine Learning (Master's)	Aug.-Dec. 2018
<ul style="list-style-type: none"><li>I will teach recitations and write course assignments and tests.</li></ul>	↑
Aurora Innovation - Software Engineering Intern	Jun.-Aug. 2018
<ul style="list-style-type: none"><li>Built the core communication system between autonomous vehicle operator software and the company fleet monitoring dashboard using Qt, nginx, Flask, React, and Redux.</li></ul>	↑
<ul style="list-style-type: none"><li>Set up automatic hyperparameter tuning for the training of perception models.</li></ul>	↑
<ul style="list-style-type: none"><li>Wrote a program to visualize the geographical location of training data.</li></ul>	↑
Facebook Global Hackathon - Facebook Discourse	Nov. 2017
<ul style="list-style-type: none"><li>Created a debate platform that encourages productive discourse.</li></ul>	↑
<ul style="list-style-type: none"><li>Presented to the VPs of Technology of Oculus VR, Instagram, and WhatsApp.</li></ul>	↑
<ul style="list-style-type: none"><li>First place out of 20 finalist teams from 11 different countries.</li></ul>	↑
Carnegie Mellon Center for Machine Learning and Health - Research Assistant	Jun.-Aug. 2017
<ul style="list-style-type: none"><li>Worked a visual machine learning platform for genome-wide association studies.</li></ul>	↑
<ul style="list-style-type: none"><li>Developed systems to efficiently transfer data between the backend and user interface using MongoDB, Node.js, Node.js C++ Addons, React, and Redux. See genamap.org</li></ul>	↑
TartanHacks - ResistAR	Feb. 2017
<ul style="list-style-type: none"><li>Created an educational augmented reality circuit solver app using Unity.</li></ul>	↑
<ul style="list-style-type: none"><li>I designed algorithms which processed 3D coordinates of physical components to construct an electron flow visualizer overlay and solve for current, voltage, and power.</li></ul>	↑
<ul style="list-style-type: none"><li>Won the Carnegie Mellon Grand Prize. See devpost.com/software/resistar</li></ul>	↑
Teaching Assistant for 15-110 Principles of Computing	Jan-Dec. 2017
<ul style="list-style-type: none"><li>Led recitations and discussed how to improve the course.</li></ul>	↑
HackCMU - BOBS Ramen	Sep. 2016
<ul style="list-style-type: none"><li>Built an internet of things ramen preparer on a team of 4 freshmen.</li></ul>	↑
<ul style="list-style-type: none"><li>I programmed the microcontroller to direct servomotors and take network requests.</li></ul>	↑
<ul style="list-style-type: none"><li>Won the Microsoft Mentor's Choice Award. See devpost.com/software/bob-s-ramen</li></ul>	↑
SAT Score 2400/2400	Jun. 2016
Olympia High School Programming Contest, 1st Place	Mar. 2014