

# JEREMY ONG

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## EDUCATION

### CARNEGIE MELLON UNIVERSITY

B.S.in Computer Science, Minor in Machine Learning, Cumulative GPA: 3.80/4.00

May 2020

## SKILLS

### TECHNOLOGIES:

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

### COURSEWORK:

Computer Systems, Parallel Computer Architecture and Programming, Programming Language Theory, Machine Learning, Deep Learning, Modern Regression, Mobile Robot Programming, Operating Systems

## TECHNICAL EXPERIENCE

### CRUISE AUTOMATION | MACHINE LEARNING INFERENCE INTERN

May-Aug  
2019

- Investigated and adapted deep learning compiler technologies for ML inference.
- Developed on the Cruise deep learning inference framework to unify and streamline the deployment of models onto the autonomous vehicle.

### AURORA | SOFTWARE ENGINEERING INTERN

Jun-Aug  
2018

- Built the core messaging platform between autonomous vehicle operators and the fleet monitoring dashboard to enable more effective fleet management.
- Configured automatic hyperparameter tuning for the training of perception models.
- Scripted a program to visualize the global poses of training data.

### CARNEGIE MELLON CENTER FOR MACHINE LEARNING AND HEALTH | RESEARCH ASSISTANT

Jun-Aug  
2017

- Worked on GenAMap, a visual machine learning platform for genome studies.
- Architected the pipeline for efficient data transfer between the backend and frontend.

## PROJECTS

### MODWARE | PENNAPPS

Jan 2018

- A modular internet of things hardware prototyping kit for the software engineer.
- *Winner*: 2nd place overall, Lutron's IOT award, best hardware hack, hacker's favorite.

### FACEBOOK DISCOURSE | FACEBOOK GLOBAL HACKATHON

Nov 2017

- A debate platform that fosters productive discourse.
- Presented to the VPs of Technology of Oculus VR, Instagram, and WhatsApp.
- *Winner*: First place out of 20 finalist teams from 11 different countries.

### RESISTAR | TARTANHACKS

Feb 2017

- An educational augmented reality circuit solver app using Unity.
- Designed algorithms which processed 3D coordinates of physical components to solve for current, voltage, and power and create an electron flow visualization overlay.
- *Winner*: Carnegie Mellon Grand Prize.

### BOBS RAMEN | HACKCMU

Sep 2016

- Built an internet of things ramen preparer on a team of 4 freshmen.
- Programmed the microcontroller to direct servomotors and take network requests.
- *Winner*: Microsoft Mentor's Choice Award.

## TEACHING EXPERIENCE

### CMU MACHINE LEARNING DEPARTMENT | TEACHING ASSISTANT FOR INTRO TO ML (MASTER'S)

Aug-Dec 2018

- Drafted assignments and tests, coordinated course logistics, and taught recitations.

### CMU COMPUTER SCIENCE DEPARTMENT | TEACHING ASSISTANT FOR PRINCIPLES OF COMPUTING

Jan-Dec 2017

- Instructed students in foundational computing concepts.