JEREMY ONG

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EDUCATION

CARNEGIE MELLON UNIVERSITY May 2020

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

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 | PERCEPTION PLATFORM 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.