J E RE M Y ON G

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**EDUCATION**

**CARNEGIE MELLON UNIVERSITY** May 2020

B.S.in Computer Science, Minor in Machine Learning, Cumulative GPA: 3.81/4.00

**SKILLS TECHNOLOGIES:**

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

**COURSEWORK:**

Computer Systems, Parallel Computer Architecture and Programming, Programming Language Theory, Complexity Theory, Machine Learning, Computer Security, Graph Theory, Operating Systems

**TECHNICAL EXPERIENCE**

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| [**CRUISE**](https://aurora.tech/) **AUTOMATION** | MACHINE LEARNING INFERENCE INTERN   * 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**](https://aurora.tech/)| SOFTWARE ENGINEERING INTERN   * 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   * Worked on [GenAMap,](http://genamap.org/) a visual machine learning platform for genome studies. * Architected the pipeline for efficient data transfer between the backend and frontend. | May-Aug  2019  Jun-Aug  2018  Jun-Aug  2017 |

**PROJECTS**

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| [**MODWARE**](https://devpost.com/software/modware)| PENNAPPS   * 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   * 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**](https://devpost.com/software/resistar)| TARTANHACKS   * 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**](https://devpost.com/software/bob-s-ramen) | HACKCMU   * 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. | Jan 2018  Nov 2017  Feb 2017  Sep 2016 |

**TEACHING EXPERIENCE**

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| **CMU COMPUTER SCIENCE DEPARTMENT** | TEACHING ASSISTANT FOR COMPLEXITY THEORY   * Instructed students in complexity theory concepts.   **CMU MACHINE LEARNING DEPARTMENT** | TEACHING ASSISTANT FOR INTRO TO ML (MASTER’S)   * Drafted assignments and tests, coordinated course logistics, and taught recitations. | Jan-May 2020  Aug-Dec 2018 |