Lawrence **Moore**

3455 Park Boulevard, Palo Alto, CA

803-257-4258 | lsmoore938@gmail.com | lawrence-moore.github.io

Education

Stanford University   *Stanford, CA*

M.S. IN COMPUTATIONAL AND MATHEMATICAL ENGINEERING   *September 2017 - Present*

- Course work focusing on machine learning, optimization, and statistics.
- Pursued concurrently with full-time job.

Georgia Institute of Technology   *Atlanta, GA*

B.S. IN COMPUTER SCIENCE, HIGHEST HONORS   *August 2013 - July 2017*

- Senior Thesis: *Detecting Mosquitoes with Convolutional Neural Networks*, advised by Dr. James Hays
- Received the President's Undergraduate Research Award in 2017, given to a select few undergraduates in each department.
- Served as a TA for Intro to Computer Organization & C Programming (CS 2110) and Computing with Matlab (CS 1371).
- Gave recitations to over fifty students, held office hours, and graded course material.
- GPA: 4.0/4.0

Experience

Google   *Mountain View, CA*

SOFTWARE ENGINEER   *July 2017 - Present*

- Worked under internal infrastructure to model the resources of data centers and plan upgrades to the existing fleets of machines.
- Worked on improving object detection performance for the Cloud AI Imaging Solutions team.

California Institute of Technology   *Pasadena, CA*

SUMMER UNDERGRADUATE RESEARCH FELLOW   *June 2016 - Aug. 2016*

- Developed software to trace neurons using machine learning in the neuroscience lab of Dr. Viviana Gradinaru.
- Investigated the use of unsupervised learning techniques, namely K-Means, Self Organizing Map (SOM), and Expectation Maximization (EM), to cluster neurons based on color and connectivity.
- Worked as part of a team to develop a GUI to allow users to manually aid in this process by selecting specific color regions to isolate neurons.

Quorum Analytics   *Washington, D.C.*

SOFTWARE ENGINEER   *Dec. 2015 - May. 2016*

- Served as a full stack developer, focusing on security, data management, and user flow.
- Implemented client-side encryption and two factor authentication across the site.
- Developed the permissions system handling different types of clients.
- Built a system to allow information retrieval of arbitrary format based on geographic location.

Google   *Mountain View, CA*

SOFTWARE ENGINEERING INTERN   *Aug. 2015 - Nov. 2015*

- Worked on the support team in AdWords to aid in classification.
- Prototyped several different methods to extract information and designed a classifying service around the most promising approach.

Jet Propulsion Laboratory (JPL)   *Pasadena, CA*

SUMMER INTERN   *May. 2015 - Aug. 2015*

- Built comprehensive simulation software to test the AI of unmanned vehicles.
- Improved the geometric model of the agents in the simulation, taking into account viewing angle, elevation, and uncertainty in measurements.
- Built an improved visualization suite to observe the simulations.
- Created a system to easily generate simulation scenarios on the fly instead of manually specifying the exact behavior.

Programming Languages

More experienced with: Python, Java

Familiar with: TensorFlow, NumPy, OpenCV, C++, Matlab, C, JavaScript, Linux, Django

Extracurriculars

President and Member of the Classical Music Club   *Atlanta, GA*

Jan. 2014 - Jan. 2015

- Organized weekly meetings and scheduled concerts.
- Engaged in outreach.

Extracurriculars

President and Member of the Classical Music Club   *Atlanta, GA*

Georgia Tech   *Jan. 2014 - Jan. 2015*

- Organized weekly meetings and scheduled concerts.