

Lawrence Moore

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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.
- 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.

College of Computing at Georgia Tech

Atlanta, GA

TEACHING ASSISTANT

Jan. 2014 - May 2015

- 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.

Programming Languages

More experienced with: Python, Java

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

Hobbies

Georgia Tech

PRESIDENT AND MEMBER OF THE CLASSICAL MUSIC CLUB

Atlanta, GA

Jan. 2014 - Jan. 2015

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