

## Education

The University of Texas, Austin	December 2015
Overall GPA: 3.92	
Bachelor of Science, Computer Science, Turing Honors Scholars	
Business Foundations Certification Program	

## Technical Skills

<b>Proficient in:</b> Python, Java	<b>Tools:</b> Bash, Git, JIRA, unittest
<b>Comfortable with:</b> C++	NumPy, SciPy, matplotlib, MATLAB
<b>Exposure to:</b> R, C, HTML/CSS/JavaScript, SQL	Apache Mesos & Aurora, Vagrant

## Projects

<b>Fifteen Puzzle Game AI</b>	Fall 2014
<ul style="list-style-type: none"><li>Used multiple A* searches in serial to tackle enormous state space</li><li>Compared different search strategies and methods of dividing the search into phases</li></ul>	
<b>The Pacman Projects</b> , learn and implement fundamental Artificial Intelligence concepts	Spring 2014
<ul style="list-style-type: none"><li>A*, minimax, expectimax search; reinforcement learning; classification; probabilistic inference</li><li>Won first place in the Capture the Flag tournament among other honors AI students</li></ul>	
<b>PolyDrop</b> , a game for the Leap Motion Controller that won first place in a hackathon competition	Spring 2014
<ul style="list-style-type: none"><li>Players catch falling polygons and balance them on a platform controlled with their hand</li><li>Has over 30,000 downloads on the Airspace App Store</li></ul>	
<b>LetterPress Game AI</b>	Winter 2012
<ul style="list-style-type: none"><li>Designed effective evaluation function to assign a value to any game state</li><li>Graphically displays best possible game states one turn into the future</li></ul>	
<b>Physics Simulator</b> , models gravitational motion and elastic collisions	Spring 2012
<ul style="list-style-type: none"><li>User plays with gravity, modifying particles and gravitational fields with simple GUI</li><li>Helps visualize conservation of momentum and the inverse square law</li></ul>	

## Experience

<b>Apple Inc.</b> , iCloud Application Engineering, Intern ( <i>Cupertino, CA</i> )	Summer 2014
<ul style="list-style-type: none"><li>Designed and prototyped a cluster management system that auto-scales in response to resource demand</li><li>Proposed new architecture for a specific application to make use of this new auto-scaling infrastructure</li><li>Presented my work to managers and other engineers in a formal setting</li></ul>	
<b>Applied Research Laboratories</b> , Space & Geophysics Lab, Honors Scholar & Researcher ( <i>Austin, TX</i> )	Summer 2013 - present
<ul style="list-style-type: none"><li>Implemented and evaluated new algorithms for modeling the for the ionosphere</li><li>Analyzed large amounts of data from GPS satellites with an emphasis on data visualization</li></ul>	
<b>UT Engineering Department</b> , Tutor ( <i>Austin, TX</i> )	Spring 2013
<ul style="list-style-type: none"><li>Selected by professor to tutor his Introduction to Chemical Engineering Analysis course</li><li>Worked with students individually and in groups to assist with understanding abstract concepts</li></ul>	
<b>Institute for Advanced Technology</b> , Science and Engineering Intern, Student Researcher ( <i>Austin, TX</i> )	Summer 2011
<ul style="list-style-type: none"><li>Studied and analyzed blast characteristics of electric arc discharges in air</li><li>Presented formal, comprehensive report to panel of judges; awarded honorable mention</li></ul>	

## Research

<b>Action Prediction for Egocentric Video</b>	Fall 2014 - present
<ul style="list-style-type: none"><li>Working with Dr. Kristen Grauman to conduct computer vision research and develop a thesis</li></ul>	

## Awards

Winner of Compare Metrics/Leap Motion hackathon	2014
Honors Scholar of College of Natural Sciences	2013 & 2014
Honors Scholar of Cockrell School of Engineering	2013
Honorable Mention, Institute for Advanced Technology Presentation	2011