

Education

The University of Texas, Austin

Overall GPA: 3.91

Bachelor of Science, Computer Science, Turing Scholars Honors

Master of Science, Computer Science

December 2015

May 2017

Technical Skills

Proficient in: Python, Java

Comfortable with: C/C++, HiveQL

Exposure to: R, MATLAB

Tools: Git, JIRA

NumPy, SciPy, matplotlib

Apache Hadoop, Apache Hive

Experience

Apple Inc., Applied Machine Learning, Intern (*Cupertino, CA*)

Summer 2015

- Using machine learning to improve product recommendations on the Apple Online Store
- Technologies: Hadoop, Hive, Python

Applied Research Laboratories, Space & Geophysics Lab, Honors Scholar & Researcher (*Austin, TX*)

Summer 2013 – Spring 2015

- Implemented and evaluated new algorithms for modeling the ionosphere
- Analyzed large amounts of data from GPS satellites with an emphasis on data visualization

Apple Inc., iCloud Application Engineering, Intern (*Cupertino, CA*)

Summer 2014

- Designed and prototyped a cluster management system that auto-scales in response to resource demand
- Proposed new architecture for a specific application to make use of this new auto-scaling infrastructure

Projects

Fifteen Puzzle Game AI

Fall 2014

- Used multiple A* searches in serial to tackle enormous state space
- Compared different search strategies and methods of dividing the search into phases

The Pacman Projects, implement fundamental Artificial Intelligence concepts

Spring 2014

- A*, minimax, expectimax search; reinforcement learning; classification; probabilistic inference
- Won first place in the Capture the Flag tournament among other honors AI students

PolyDrop, a game for the Leap Motion Controller that won first place in a hackathon competition

Spring 2014

- Players catch falling polygons and balance them on a platform controlled with their hand
- Has over 40,000 downloads on the Airspace App Store

LetterPress Game AI

Winter 2012

- Designed effective evaluation function to assign a value to any game state
- Graphically displays best possible game states one turn into the future

Physics Simulator, models gravitational motion and elastic collisions

Spring 2012

- User plays with gravity, modifying particles and gravitational fields with simple GUI
- Helps visualize conservation of momentum and the inverse square law

Research

Intelligent Feature Extraction for Egocentric Video Classification

Fall 2014 - present

- Working with Dr. Kristen Grauman to develop a thesis in the areas of computer vision and machine learning

Selected Coursework

Honors Machine Learning and Vision

Fall 2015

Honors Statistics

Spring 2015

Honors Artificial Intelligence

Spring 2014

Awards

Winner of Compare Metrics/Leap Motion hackathon

2014

Honors Scholar of College of Natural Sciences

2013 - 2015

Honors Scholar of Cockrell School of Engineering

2013