

I am a curious, hard-working student looking for a full-time position in computer science and machine learning.

## Experience

### Cognitive Systems Research Intern

IBM Center for Cognitive Computing Research  
Nov. 2016 - Present

**Project:** Research new methods to improve the training of artificial neural networks in machine learning

**My Role:** Implementing a CNN in Tensorflow and testing novel methods of parameter initialization

**Skills:** Convolutional Neural Networks, Deep Architectures, Theano, Tensorflow, Python, PIL

### Software Development Intern

Booz Allen Hamilton  
Summer 2016

**Project:** Design a software platform to improve interorganizational cooperation during disaster relief

**My Role:** Implemented blockchain and mesh networks, did market research, contributed to marketing presentation, and co-presented to leadership in McLean, VA.

**Skills:** Java, Sockets, Mesh Networks, Blockchain, Bluetooth

### Machine Learning Research Intern

UIUC AI Lab  
Jan. 2015 - Dec. 2015

**Project:** Create an algorithm for automating discovery of "interesting" data in large scientific datasets,

**My Role:** Extended algorithm using nonlinear dimensionality reduction

**Skills:** Matlab, Research, Statistics, Theano

### Research Intern

UC San Diego  
Computer Vision Lab  
Summer 2014

**Project:** Program a turtlebot to determine if a class of objects has been seen before.

**My Role:** Coded and trained a convolutional neural network to recognize objects in front of a camera

**Skills:** Python, Caffe, Scikit-learn, ROS, Research

## Education

### University of Illinois Urbana-Champaign

Fall 2014 - Spring 2017

**Major:** Engineering Physics

**Minor:** Computer Science

**GPA:** 3.81

**Awards:** University Achievement, James Scholar

**Clubs:** Automata Robotics Club: Co-Founder, Treasurer

## Projects

### LSTM Neural Network Project

Personal Project

**Project:** A LSTM network to find patterns in different mediums such as shakespeare and stock prices

**Role:** Implemented the LSTM recurrent neural network, trained using AWS

**Skills:** Theano, AWS, Multithreading, RNN

### Neural Prosthetics Project

Team Engineering Competition 2015

**Project:** Allow a user to fly a 3D printed quadcopter using a neural headset

**Role:** Project leader, coded an algorithm to decode neural signals and control a quadcopter over Xbee

**Skills:** Python, Xbee, 3D Printing, Robotics, 3rd place at University of Illinois Engineering Open House

### Investing

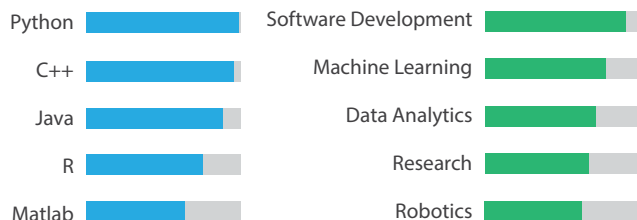
Personal Project

**Project:** Automatically download and store intraday data to test trading strategies, taken coursera course

**Role:** Built a computing cluster on top of Hadoop, wrote python script to efficiently store data from financial data providers daily

**Skills:** Python, MongoDB, Hadoop, distributed systems, statistics, financial engineering

## Top Skills



## Hobbies



Piano



Running



Photography



Machine Learning



Puzzle Games