

EDUCATION

University of California, Berkeley

Berkeley, CA

Master of Information Management & Systems GPA: 3.5

Expected 2018

- **Focus:** Deep Learning & Software Engineering
- **Selected Coursework:** Natural Language Processing, Data Mining, Agile Engineering Methods, Cybersecurity, Web Development, Topics in Deep Learning, Deep Time-Series Learning, Deep Reinforcement Learning

University of California, Los Angeles

Los Angeles, CA

B.S. in Mathematics / Economics (w/ emphasis in Computing) GPA: 3.7

August 2016

- **Selected Coursework:** Linear Algebra, Optimization, Advanced Programming, Econometrics, Math of Finance, Probability Theory, Multivariable Calculus, Applied Numerical Methods

ACADEMIC PROJECTS

Improving on Proximal Policy Optimization – Deep Reinforcement Learning for Robotic Control

- Tested alterations to the Proximal Policy Optimization algorithm to achieve more sample efficient policy learning for robotic control tasks in a simulated OpenAI Gym environment

Energy Grid Price Prediction – Deep Time-Series Learning

- Improved on Texas Energy grid Price predictions using an LSTM Neural Networks

Image Classification with Convolutional Neural Networks – Computer Vision

- Trained a Convolutional Neural Network on image data to classify medical images for cancer screening

Image Generation with Generative Adversarial Networks – Unsupervised Representation Learning

- Trained a Generative Adversarial Network on image data and to generate new images from noise

Predicting Drug-Drug Interactions – Natural Language Processing & Machine Learning

- Trained a classifier to detect mentions of drug-drug interactions in medical documentation

Basketball Shot Analysis Through Wearable IMU Data – Time Series Data Analysis

- Used raw EMG, accelerometer, and gyroscope data from a Myo gesture control armband to detect good free throw shooting form and provide relevant shooting metrics

WORK EXPERIENCE

Sikka Software – AI Scientist Intern

June 2017 – August 2017 San Jose, CA

- Lead development of automated Inventory Management model prototype with Amazon Lambda & Alexa
- Scraped Inventory information from various sources, built database of equipment for inventory model

JUMP Investors – Venture Capital Intern

June 2015 – August 2015 Los Angeles, CA

- Conducted market and competitor research and analysis for a startup tech company. Exposed to venture funding process and capital pitches. Coached by leaders from different industries.

Telecom Carrier Access (TCA) VoIP

Santa Barbara, CA

Data Migration Engineer

June 2014 – August 2014

- Completed transition to new voice call trade-hosting service to eliminate costs, improve reliability, & better meet needs of large telecom clients. Managed migration of over 1 million records of route pricing data.

Junior Analyst

June 2013 – August 2013

- Analyzed network data to improve efficiency of call trading. Developed Excel methods to identify underperforming routes. Tested re-pricing of routes to increase volume and profit.

SKILLS

- **Programming Languages:** Python, C++, Java, Bash, SQL, MATLAB, JavaScript, HTML, CSS
- **Skill Areas:** Deep Learning, Reinforcement Learning, Cloud Computing, Distributed Computing

- Software Tools: TensorFlow, Keras, NumPy, Pandas, Scikit-Learn, NLTK, OpenCV, Git, Hadoop, Linux