
Education

PhD Student in Finance, University of Washington, September 2014 - Present

- Honors and Awards: UW Graduate School Top Scholar Award
- Coursework included Cross Sectional and Time Series Econometrics, Stochastic Processes, Game Theory, Microeconomics, Macroeconomics, Corporate Theory, Empirical Corporate Finance, and Queueing Theory

Machine Learning Engineer Nanodegree, Udacity, 2016

Master of Science in Management Science & Engineering, Stanford University, September 2012 - March 2014

- GRE Quantitative Reasoning: 800/800
- Coursework included Probabilistic Analysis, Advanced Investment Analysis, Linear and Nonlinear Optimization, Conic Optimization, Simulation, Credit Risk Modeling, Numerical Optimization, and Stochastic Methods
- Rugby Player for the GSB Rugby Team; Writer for the Stanford Daily

Bachelor of Science in Business Administration, Seton Hall University, September 2006 - May 2010

- Honors and Awards: Summa Cum Laude, Seton Hall's Big East Academic Athlete of the Year 2010, Seton Hall's Eastern College Athletic Conference Scholar Athlete Nominee 2010, Academic Scholarship Recipient, and Stillman School of Business Finance Honor Society
- Coursework included Calculus, Differential Equations, Linear Algebra, Complex and Real Analysis, Discrete Math, Futures Options & Derivatives, Fixed Income, Investment Analysis, Corporate Finance, and International Finance
- Division I Track Athlete; Writer for the Stillman Exchange; Vice President of Finance Club

Skills

Computer Languages: Python, SQL, R, C++, Java, SAS, Ruby, HTML, AIMMS, & Objective C

Libraries: pandas, numpy, scikit-learn, networkx, matplotlib, sframe, graphlab-create, nltk, tensorflow, and caffe

Other: Selenium, Git/Github

Experiences

Data Scientist Intern, Turi (Formerly Dato, Acquired by Apple), January 2016 - August 2016

- Used log data to build machine learning models that predict user churn and lead scoring
- Built a visual recommender framework based on images using deep learning and unsupervised learning techniques
- Constructed pipelines to collect, organize, and store data efficiently from many online sources

Research Assistant, UW, June 2014 - Present

- Developed a program for collecting and performing Natural Language Processing analysis on up to 300,000 articles per day
- Drafted a white paper for understanding research applications for social media data
- Modelled the dynamics of crowdfunding (Kickstarter and Indiegogo) and explored its potential as a form of raising capital

Research Assistant, Stanford, Spring 2013 - Spring 2014

- Designed an optimization algorithm for shifting residential electricity loads that resulted in economic benefits of 40% or more in energy savings: [Journal Paper](#)
- Examined the current residential energy market to identify barriers and potential entry points for new technology

Teacher and Tutor, Kaplan Test Prep, Winter 2011 - 2014

- Coached students in preparation of the SAT, ACT, and GRE and improved their overall percentile by a minimum of 15%

Projects

[ML Capstone Project](#), Summer 2016

- Developed a venture capital, private equity tool that returns a queried firm's competitors
- Explored featured extraction techniques for text processing and different methods for measuring similarity in text

Agora, Summer 2016 - Present

- Built an application that labels the liberal or conservative bias in political articles using convolutional neural nets for sentence classification and ensemble methods

Ericsson's NEST Business Case Competition for MBAs and Design Schools, Fall 2013

- Examined how we can make the cities of tomorrow more efficient and sustainable through creative applications of information and communications technology (ICT)

Global Project Coordination Class, Winter 2013

- Consulted for Salesforce.com (CRM segment), delivering quick wins and strategic recommendations to increase revenue and reclaim lost market share in SMB space

[Stanford Predicts](#), Fall 2012

- Engineered a probability model to predict presidential winner, and the model's prediction was 98% accurate

Activities

- Volunteer Track Clinician, Stanford Outreach Volunteer Alumni Link member, Data Kind Volunteer