

## EDUCATION

**UNIVERSITY OF PENNSYLVANIA** | Jerome Fisher Program in Management and Technology  
Bachelor of Science in Engineering, Major in Computer Science, Minor in Math  
Bachelor of Science in Economics, Concentrations in Finance and Statistics  
Expected May 2018 | Philadelphia, PA • Cum. GPA: 3.74

## EXPERIENCE

**AKUNA CAPITAL** | Software Engineering Intern: June 2016 – August 2016 (Chicago, IL)

- Creating data visualizations using React and d3
- Writing server-side code in Tornado for managing data and computing trading model parameters

**CIS 121: DATA STRUCTURES/ALGORITHMS** | Teaching Assistant: December 2015 – Present (Philadelphia, PA)

- Course material includes basic data structures (trees, heaps, graphs, etc.), algorithm design, and implementation in Java
- Help write homework, maintain course infrastructure, hold office hours and review sessions, grade exams and assignments

**CB INSIGHTS** | Summer Research Intern: May 2015 – August 2015 (New York, NY)

- Created data-driven industry reports on startup technology companies
- Analyzed investment patterns and market disruption using private company financing database in the following verticals: payment processing, cyber security, and human resources software
- Created payments industry financing presentation to highlight key features and potential use cases for clients

**VITRUVIAN SCIENCE** | Software Engineering Intern(Remote): April 2015 – September 2015 (San Francisco, CA)

- Built a framework to simplify the implementation of neural network deep learning algorithms
- Implemented recurrent neural network and deep learning models using research papers in theano library of Python

## CAMPUS INVOLVEMENT AND PROJECTS

**WHARTON INVESTMENT AND TRADING GROUP** | TRADING TEAM HEAD

- Work with a team to design and implement software for an automated trading system
- Create a PostgreSQL database to hold market/ fundamental data using Django's ORM and an API for team members
- Develop a transaction costs analysis framework that will use an SVM to make trading implementation decisions

**PENNAPPS ACCELERATOR** | BOARD MEMBER

- Run accelerator program backed by PennApps, mentor startups in product development, business planning, and marketing
- Organize joint pitch day with accelerators at Columbia, Harvard, and Princeton (intercollegiate.co)

**CATHFIT SURGERY** | CIS 350: SOFTWARE ENGINEERING

- Design and implement a webapp in Django to assist Penn hospital surgeons with picking correct catheters during surgery
- Meet with and gather requirements from surgeons, engaging in product design, prototyping, and iteration

**CS 224D** | STANFORD UNIVERSITY

- Completed course work and problem sets for Stanford's deep learning class on the application of deep learning to Natural Language Processing

## TECHNOLOGIES AND COURSEWORK

### RELEVANT COURSEWORK

Computer Science

Data Structures/Algorithms • Computability • Computer Architecture  
• Software Engineering

Math

Linear Algebra • Discrete Math • Probability • Multivariable Calculus

Business

Management of Technology • Mathematical Modeling in Finance

### PROGRAMMING TECHNOLOGIES

Proficient:

Java • Python

Familiar:

Javascript • MATLAB • R • HTML • CSS •

Android