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Education

Carnegie Mellon University, Pittsburgh, PA **Aug 2015 - May 2019**
Bachelor of Science in Mathematical Sciences
Double Major in Statistics and Machine Learning
Minor in Computer Science

Relevant Coursework

Parallel and Sequential Data Structures and Algorithms
Great Theoretical Ideas in Computer Science
Artificial Intelligence: Representation and Problem Solving
Modern Regression
Introduction to Computer Systems
Practical Data Science
Machine Learning

Skills

Programming Languages: Python, R, C, Java, SML, SQL, LaTeX
Software: Mathematica, Git, MATLAB, SAS

Research/Work Experience

Mathematics Research, Pittsburgh, PA **Oct 2016 - Present**
Supervised by David Offner
· Pending submission for publication of *Linear d-Polychromatic Q_{d-1}-Colorings of the Hypercube*

CMU School of Computer Science, Pittsburgh, PA **Jan 2017 - Present**
Head Teaching Assistant, 15-122 Principles of Imperative Computation (Summer 2017)
· Supervised TA meetings and worked closely with the professor for administrative tasks
· Wrote exam practice questions and led review sessions

Teaching Assistant, 15-122 Principles of Imperative Computation (Spring, Fall 2017)
· Lead lab and recitation sessions to teach students basic data structures and algorithms in C
· Graded homeworks and exams and held weekly office hours for supplementary assistance

Opticlose, New York, NY **Sep 2014 - Aug 2015**
Data Analyst Intern
· Analyzed sales data and built linear regression models in R to predict success of sales closure
· Developed a company specific library of R functions to assist in future model developments
· Created and presented a slide deck consisting of the analysis results to investors

BCA Math Competition Camp, Hackensack, NJ **June - July 2013, 2014**
Teaching Assistant
· Lectured students on basic topics in combinatorics

Activities

Carnegie Mellon Informatics and Mathematics Competition **Oct 2015 - Present**
Executive Board
· Organized Carnegie Mellon's first high school mathematics competition with over 150 participants
· Managed the logistics of the finances by building formulas and spreadsheets

Projects

15-388 Practical Data Science **Dec 2016**
Final Project
· Developed an algorithmic trading strategy in Python and backtested it on historical data
· Wrote an IPython notebook detailing the process of our algorithm's development

HackCMU, Pittsburgh, PA **Sep 2015**
Awair, Winner of the Harris Award
· Developed a web app that transcribes public safety audio transmissions in real time to text
· Successfully built a server to format segmented audio text files to be saved into a database

Jane Street Electronic Trading Hackathon, Pittsburgh, PA **Nov 2015**
· Developed an AI to trade on a simulated market using an ETF arbitrage strategy