Eugene Han

Linkedin: https://www.linkedin.com/in/eugene-han-cmu   Phone: (201) 841-2870
Website: https://eugenehan.github.io   Email: eugeneh@andrew.cmu.edu

EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Bachelor of Science in Mathematical Sciences   **Aug 2015 - May 2019**
Additional Major in Computer Science, Minor in Computational Finance

RELEVANT COURSEWORK

CS: Great Theoretical Ideas in Computer Science, Practical Data Science, Functional Programming, Principles of Imperative Computation
Math: Algebraic Structures, Vector Analysis, Probability, Matrix Theory

SKILLS

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

WORK EXPERIENCE

CMU School of Computer Science, Pittsburgh, PA
15-122 Teaching Assistant   **Jan - Present**
· Lead lab sessions for 15-122 Principles of Imperative Computation
· Grade homeworks, exams, and hold weekly office hours for additional help

Opticlose, New York, NY
Data Analyst   **Sep 2014 - Aug 2015**
· Analyzed sales data and built regression models in R to predict success of sale closure
· Developed a company specific library of R functions to assist in developing statistical models
· Presented analysis results to investors

BCA Math Competition Camp, Hackensack, NJ
Teaching Assistant   **June - July 2013, 2014**
· Lectured students on basic topics in combinatorics and provided one-on-one tutoring upon request
· Taught strategies on approaching competition math problems and reviewed and discussed homework solutions with the students
· Performed routine tasks including grading, proctoring, and generating exam questions

ACTIVITIES

Mathematics Research, Pittsburgh, PA
Supervised by David Offner   **Oct 2016 - Present**
· Determining new bounds for polychromatic coloring of hypercube faces

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

Scotty Labs, Pittsburgh, PA
Member   **Sep 2016 - Present**
· Developing a print API that allows CMU students to print anywhere without installing drivers
· Working on the logistics to run another successful WebDevWeekend and TartanHacks

PROJECTS

15-388 Practical Data Science
Final Project   **Dec 2016**
· 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
Awair, Winner of the Harris Award   **Sep 2015**
· 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