

## EDUCATION

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### Carnegie Mellon University

Pittsburgh, PA

B.S. in Mathematics, Additional Major in Computer Science: 3.57/4.00

2018–Current

- **Relevant Coursework:** Great Ideas in Theoretical Computer Science, Probability Theory, Computer Systems, Functional Programming, Discrete Mathematics, Data Structures, Machine Learning\*, Discrete Time Finance\*, Machine Learning\*, Algorithms\*, Real Analysis 1\*

## EXPERIENCE

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### Carnegie Mellon University, Mathematical Science Department

Pittsburgh, PA

Student Researcher

Summer 2020

- Conducted research on additive combinatorics with Professor Kaave Hosseini
- Researched complexity and algorithms related to the sum-set problem
- Discovered a reduction from Labelled Clique Problem to the Clique Problem

### Hiretual

Mountain View, California

Software Development Intern

Summer 2019

- Worked on improvements for the prediction model for an AI-driven recruitment software
- Analyzed results between different machine learning models and derived potential enhancements to each model
- Developed a keyword mapping that aggregates similar search words into one entity

### SLAC National Laboratory

Menlo Park, CA

Student Researcher

Summer 2017

- Researched Alzheimer's Disease and machine learning under the guidance of SLAC scientists and Stanford professors
- Used Tensorflow to analyze MRI and PET scans of patients with Alzheimer's Disease from the ADNI database
- Published research paper in an international conference

## TEACHING

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- **Teaching Assistant** at Carnegie Mellon University

Fall 2020

*Multivariate Analysis (21-256)*

## SKILLS AND INTERESTS

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- **Technical:** Python, C, Standard ML, Java,  $\LaTeX$ , HTML
- **Languages:** English, Chinese
- **Interests:** Startups, Sports Analytics, Music, Gaming

## PROJECTS

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- Malloc Lab (C, 2020)
  - Implemented a dynamic memory allocator in C
- Python Game (Python)
  - Used Panda3d and Kinect to make a motion game