

# Austin Leung

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## Education

### Carnegie Mellon University

Pittsburgh, PA

- Bachelor of Science: Double Major in Information Systems and Computer Science
- Quantitative Social Science Scholars Program

Class of 2022

GPA: 4.0/4.0

## Professional Experience

### MultiComp Lab - Carnegie Mellon University School of Computer Science

Pittsburgh, PA

#### Data Research Assistant

May 2019 – Present

- Run data crawling mechanisms with web-and python-based libraries retrieving data from APIs
- Build deep neural networks with PyTorch to extract computational descriptors

### Adagio Digital Guitar School

Pittsburgh, PA

#### Technology Intern

May 2019 – Present

- Design and develop a user-friendly website to communicate benefits of the company's digital guitar learning experience to potential customers and investors
- Create a progress tracker for guitar learning based on successful elements of other gamified e-learning services

### Russell Sage Math Team

New York City, NY

#### Math Team Instructor

Aug 2014 – Sep 2018

- Wrote weekly curriculum and problem sets for middle school math team classes to incorporate algorithmic thinking
- Coached students to prepare for the Mathcounts Competition leading to consecutive first place victories in Queens

## Projects

### The Reddit Sentiment Analyzer 1<sup>st</sup> Place - CodeDay Pittsburgh Spring 2019

- Utilized IBM's Tone Analyzer API with Express.js and Node.js to analyze the overall sentiment of a website's comments and submissions with colors corresponding to different emotions and intensities
- Built a web app and Google Chrome extension using React to visualize colorized sentiment of subreddit submission titles, comment chains, or a user's activity retrieved from the Reddit API

### AI Mahjong

- Developed a fully functional Mahjong game with multiplayer functionality within a Python GUI
- Designed a strong artificial intelligence process with heuristic values and game trees to suggest optimal moves for a user-centric assist mode training player strategy

### Find the Sets

- Created a time-based game on Java and Processing matching sets of images based on shape, color and background
- Designed a strong artificial intelligence process with heuristic values and game trees to suggest optimal moves for a user-centric assist mode training player strategy

### Who's That Pokémon?

- Trained a deep learning neural network using PyTorch to recognize images of Pokémon

## Skills

### Programming Languages

- Python/Pytorch
- C
- Java
- R
- HTML
- CSS
- JS/React/Node
- SQL

### Technical Skills

- Neural Networks
- Front-End Web Development
- Database Design and Data Modeling
- Statistical Data Analysis

### Relevant Coursework

- Principles of Imperative Computation (7A)
- Fundamentals of Programming and CS
- The Information Systems Milieux
- Methods for Statistics & Data Science