

Austin Leung

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Education

Carnegie Mellon University

Pittsburgh, PA

Class of 2022

- *Bachelor of Science in Information Systems*
- *Intended Minor in Computer Science*
- Quantitative Social Science Scholars Program

GPA: 4.0/4.0

Projects

Mahjong AI Game

Pittsburgh, PA

- Developed artificial intelligence that follows the game tree and assigns heuristic values to suggest optimal moves
- Designed a multiplayer, user-centric assist mode with Python to train the user

Find the Sets Game

New York City, NY

- Created a time-based game on Java and Processing matching sets of images based on shape, color and background
- Designed a cognitive game that assess and tailors its level of difficulty to a player's reaction time

Butterwood Bake Consortium Website

Pittsburgh, PA

- Redesigned the front-end of a website using HTML, CSS, and JavaScript for a local Pittsburgh bakery to ease navigation, mobile responsiveness, and user experience
- Redeveloped the bakery's back-end website databases with MySQL to process orders and contact information

Tonk Card Game

New York City, NY

- Developed an object-oriented Java card game within the terminal incorporating pseudorandomness and multiplayer capability

Professional Experience and Leadership

DREAM Specialized High Schools Institute

New York City, NY

High School Prep Instructor

Jun 2017 – Aug 2018

- Instructed mathematics and English classes for middle school students to prepare for high school entrance examinations
- Launched a mentoring program to inspire higher education opportunities among underrepresented communities

Russell Sage Math Team

New York City, NY

Math Team Instructor

Aug 2014 – Sep 2018

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

Carnegie Mellon Refugee Empowerment Organization

Pittsburgh, PA

In-Home Family Mentor

Nov 2018 – Present

- Visit with a refugee family from Africa weekly to instruct English and guide acclimation to life in America

CMU Hong Kong Student Association

Pittsburgh, PA

Public Relations Chair

Nov 2018 – Present

- Promote awareness of cultural and social events to campus community through social media presence and events
- Manage organization email, focusing on outreach to other organizations and university faculty

Hong Kong Dragon Boat Festival in NY

New York City, NY

Head Finish Line Video Producer

Aug 2016 – Present

- Streamline video recording and processing procedure to verify race results in real time
- Supervise volunteers in video editing and corroborating official timings

Skills

Programming Languages

- Python
- C
- Java
- R
- HTML
- CSS
- JavaScript
- SQL

Technical Skills

- Algorithmic Back-End Development using Data Structures
- Front-End Web Development
- Database Design and Data Modeling
- Statistical Data Analysis

Foreign Languages

- English (native)
- Cantonese (conversational)
- Japanese (intermediate)
- Mandarin (basic)