Adam **Starr**

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Education

University of Pittsburgh School of Computing and Information
Pittsburgh, PA

BS in Computer Science/Minor in Economics
August 2018 – April 2022

GPA: 3.6

Work Experience

University of Pittsburgh
Pittsburgh, PA

UNDERGRADUATE TEACHING ASSISTANT
August 2020 – Present

- Lead two-hour weekly lab sessions of twenty students empowering brand new coders to use Python in the field of humanities
- Develop course website to organize lab assignments
- Host office hours during the week for students in need of extra help

NSF Center for Space, High-performance, and Resilient Computing
Pittsburgh, PA

VOLUNTEER UNDERGRADUATE RESEARCHER
May 2020 – Present

- Participated in the Summer Undergraduate Research Group program as a member of the Machine Learning/Computer Vision team
- Collaborated with mentors to design a personal research project
- Built multiple convolutional neural networks for an image classification task
- Generated a custom dataset of 10,000 album covers sorted by genre and year using Discogs REST API database
- Designed and presented weekly slides on project progress to program leadership and team members
- Currently working with graduate researcher to benchmark neural network performance on various device setups

Photoscope Studios
Arlington, VA

TEAM MEMBER
May 2018 – August 2019

- Designed an Excel spreadsheet that tracks all monthly expenses within certain categories and calculates annual expenses
- Utilized Photoshop as well as multiple types of photo scanners to restore and enhance collections of photos, slides, and negatives
- Prepared digital recreations of fragile art from the 1950s for a board member of the Classic Motor Museum to be put on display
- Optimized the pricing of services based on demand and prices of similar businesses in the area leading to a 12% increase in monthly profit

Skills

Programming Languages: Java, Python, HTML, JavaScript, MIPS Assembly Language, C

Software: Git, PyTorch, TensorFlow, Google Colab, Matlab, Logisim, Node**,** Microsoft Office, Adobe Creative Suite

Projects

JP Morgan Chase Code for Good Hackathon
JavaScript, HTML, React

Over the course of 24 hours, I worked on a team of four to develop an admin page for Bay Ridge Center, an organization that provides services and programs for adults 60+. Bay Ridge needed a web app that would allow them to send out bulk calls and texts to their members, the ability to add and remove members from a database, and easy to read analytics. I worked on the front end, using React to create an attractive and intuitive user interface to display analytics and buttons.

Ok Computer Vision
Google Colab, PyTorch

Throughout the summer I learned new machine learning technologies to attempt the creation of a model that can accurately recognize an album's genre from its cover art. I was able to create a model with similar accuracy to human ability. I was selected out of 21 projects to present at the SURG expo and received an honorable mention.

Digital CPU
Logisim

A digital single cycle CPU created in Logisim that can carry out over 15 commands, including those involving memory.

The Adventures of Green Man
MIPS Assembly Language

A recreation of Pac-Man including three AI enemies, live display of score and life count, sprite animation, and an invincibility mode, all written in MIPS Assembly Language.