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.