

# Aubrey Hayes

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## EDUCATION

### Temple University

*Bachelor's Degree in Computer Science*

Philadelphia, PA

2024 (Expected)

## EXPERIENCE

### IT Support Student Worker

*Temple University*

July 2021 – Present

*Philadelphia, PA*

- Consulted with staff in various departments to troubleshoot IT issues and solved problems as they arise
- Coordinated with team members and supervisors in IT departments and off-campus organizations to ensure that project results are delivered within deadlines
- Maintained upkeep of computers, classroom equipment, and printers at different sites on and off campus
- Followed up with clients to ensure customer satisfaction following problem resolution

### Americorps Member

*City Year Philadelphia*

July 2020 – June 2021

*Philadelphia, PA*

- Dedicated one year of full-time service as a tutor and mentor to a group of 14 students at an under-resourced middle school
- Led math and literacy initiatives school-wide as the academic coordinator
- Contributed to an average mathematics score increase of 2.1 grade levels among my students in one academic year
- Taught students the basics of programming logic through MIT's Scratch

## PROJECTS

### Unbeatable Tic Tac Toe | *Python, Pygame*

- Developed a Python application that provides users with an AI opponent that plays Tic Tac Toe with perfect strategy
- Used a minimax algorithm to solve for the "best worst-case" scenario for each possible move to be taken
- Opponent has never achieved a worse outcome than a tie with the player

### GE Price Tracker | *Python, Flask, Bootstrap, SQLite*

- Developed a full-stack web application to allow users to track prices on the commodity exchange of the MMORPG, Old School Runescape
- Built the application using Flask with Bootstrap as the frontend framework
- Automatically generated custom webpages with real-time pricing from the Runescape API
- Built and updated a relational database with Python's SQLite3 module

### Definitely Not Pong | *C#, Godot Game Engine*

- Developed a video game allowing two players to play ping pong
- Built the application using the Godot Game Engine with C# as the scripting language

## TECHNICAL SKILLS

**Languages:** Python, Java, C, SQL, LaTeX, JavaScript, HTML/CSS

**Frameworks:** Bootstrap, Flask, jQuery, FastAPI

**Developer Tools:** Docker, Git, Unit Testing (Pytest/Junit), Jupyter, Bash

**Operating Systems:** Windows, Linux, Mac OS X

## VOLUNTEER WORK

### Philadelphia Community Council | *Councilmember*

- Sat as a member of the community council on police budget oversight with the City Controller's Office
- Collaborated with other members of the council to make recommendations on how to best optimize use of police resources moving forward

### Philadelphia Animal Welfare Society | *Cat Foster*

- Fostered over 20 cats including monitoring medical needs while they were put up for adoption
- Communicated with potential adopters and posted on social media to increase chances of adoption