

Euan House

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Education

The Pennsylvania State University

2021 – 2025

Computer Science B.S.

GPA: 3.35

Cybersecurity Computational Foundations Minor

Dean's List, Spring 2023

Relevant Coursework

- Algorithms and Data Structures Theory
- Database Management Systems
- Operating Systems Programming in C
- Communication Networks

Experience

Grounds Keeper, Dunwoody Village – Newtown Square, PA

May 2023 – Aug 2023

- Maintained vegetation and roads in 83-acre property
- Operated and maintained large equipment and tools to construct customized projects for homeowners
- Independently prioritized tasks to effectively utilize time and complete all projects

Technical Skills

Languages : Javascript/Typescript, HTML5, CSS, JQuery, React, Python, Java, C, SQL, PostgreSQL

Operating Systems : Windows, Linux, Unix

Software : Git, Github, Virtualization, Synchronization, Containers, OSI model

Projects

Nittany Business Database and Website

Jan - Mar 2025

- Lead team that designed a normalized database and website prototype for commercial retailers
- Implemented functionality and interface using Python's Flask, SQLite, and Bootstrap

Tabletop Simulator Webapp – [Github/Roleplayer](#)

Jun-Aug 2024

- Developed interactive environment featuring controlled zoom, drag, pan, multi-box-selection, hotkeys, and mouse and touchscreen support. Built with HTML, CSS, and JS
- Designed and implemented token draggability system for movement, token selection with multi-drag, grid snapping, and movement checks
- Developed a minimizable, select integrated GUI for token's customization, creation and deletion

File Storage System GUI – [Github/FileStorage](#)

May 2024

- Implemented GUI for online storage system with folder navigation, search, sort, download, upload and recursive file deletion. Built using Python with Tkinter
- Designed event based handler system, efficient file cataloger, and scalable file/folder structure

Futures in Engineering: Role Models can Empower (FIERCE)

2022 - 2023

Group Lead

Penn State

- Volunteered for engineering program to introduce the engineering design process to youth
- Lead roller coaster design exercises, team engagement exercises, and group campus tours

Artificial Intelligence Club

2021 - 2023

Project Lead

Penn State

- Lead team that trained recurrent neural networks to solve puzzles and games
- Constructed facial recognition AI model with 95% Accuracy in Python utilizing PyTorch and TensorFlow
- Utilized Brain-Computer Interface(BCI) headset to construct AI driven deep learning model