JAYDON HODGE

jaydonhodge@gmail.com   443-477-8003   **GitHub.com/BlazingJaydon**   **Portfolio**

EDUCATION

PENNSYLVANIA STATE UNIVERSITY - UNIVERSITY PARK, PA   **Expected Graduation, May 2025**

Bachelor of Science in *Computer Science* & Minor in *Classic and Ancient Mediterranean Studies* | GPA: 3.22

- **Honors :** Dean's List
- **Relevant STEM Courses:**
  - Object Oriented Programming with Web-Based Applications
  - Data Structures and Algorithms
  - Systems Programming (C)
  - Three-Dimensional Analytic Geometry-Calculus and Vector Analysis
  - Discrete Mathematics
  - Systems of Linear Equations
- **General Eduaction Courses of Interest:**
  - Macro Economic Analysis
  - Classic and Ancient Mediterranean Studies
  - Introduction to Psychology
  - The Art of the Cinema

SKILLS

- **Programming Languages:** Python, JavaScript, C, C#, HTML, CSS, SQL
- **Version Control:** Utilizing Git through various terminals including BASH, PowerShell, Zsh, and Command Prompt
- **Operating Systems:** Windows, MacOS, Linux within Ubuntu distribution
- **Tools:** VS Code, IntelliJ, VirtualBox, Autodesk, Raspberry Pi
- **Databases:** NoSQL, Apache Derby

EXPERIENCE

THE HUMAN IN COMPUTING AND COGNITION LAB @ PENN STATE
Undergraduate RA Intern | State College, PA | June--August 2024

- Lead research trials for ongoing projcect for National Science Foundation (NSF) where participants would interact and choose whether or not to cooperate with an AI agent of my team's design.
- Participants interacted with the AI agent through simulated missions within tailored Minecraft virtual environments of our design.
- Backend for AI-Human Interaction was derived and expanded from Microsoft's open-source Project Malmo.
- Worked on coding, data analysis, data collection and documentation for the project.

CIRCLE D SUMMER CAMP - Counselor
Glenwood, MD | June--August 2022/23

- Directly responsible for children aged 6-12 years.
- Scheduled and lead activities that taught teamwork and cooperation.
- Held standard dicussions with parents about childs behaivor & performance during activies and gave feedback & recommendations**.**

PROJECTS

C# Video Game

- 2D platformer game that was entered in the 2023 Gamedev TV game jam.
- Game was coded in C# and ran through the Unity game engine.
- Check it out at: https://nogs573.itch.io/disturbance-in-the-woods
- Source Code: https://github.com/BlazingJaydon/life2d-gamejam2023

Personal Portfolio

- Webpage dedicated to serving as my portfolio and career blog.
- Site follows modern responsiveness and accesibility standards.
- Coded in HTML, CSS, and vanilla JavaScript.
- Check it out at: https://blazingjaydon.github.io
- Source Code: https://github.com/BlazingJaydon/Portfolio

Course Scheduler Application using Derby Database

- Extensive project that was required for PSU's Object Oriented Programming course.
- Coded app in JavaScript and SQL.
- Accessed and manipulated a database of simulated students and courses managed by Apache Derby.
- Criteria for the project was that it had to be primarily object oriented.

ASSOCIATIONS

AlgoPSU - Association for Computing Machinery

- Association dedicated to developing problem solving skills and prepare students for success in the tech industry.

INSTITUTE OF ELECTRIC AND ELECTRONICS ENGINEERS: PENN STATE CHAPTER

- Global organization focused on developing skills and offering network opportunities to students in EE/CMPEN/CMPSC/DS/CSE majors.
- Member from December 2022 to Present.

BOY SCOUTS OF AMERICA: Eagle Scout (2020)