

Brayden L. Pettigrew

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EDUCATION

The Pennsylvania State University

Bachelor of Science in Computer Science (GPA: 3.88/4.00)

University Park, PA

August 2021 – May 2025

- **Relevant Courses:** Programming and Computation, Calculus and Vector Analysis, Object-Oriented Programming with Web-Based Applications, Discrete Mathematics for Computer Science, Computer Organization and Design, Introduction to Systems Programming, Programming Language Concepts, Data Structures and Algorithms, Operating Systems (Relevant coursework GPA: 4.00/4.00)

PROJECTS

Memory Management Project

The Pennsylvania State University

January 2024 – Present

University Park, PA

- Implemented a custom memory management system in C, including memory allocation, reallocation, and free functionalities. Optimized performance and organization with an embedded linked list structure.

Personal Portfolio Website

The Pennsylvania State University

November 2023 – Present

University Park, PA

- Developed a personal portfolio website with HTML, CSS, and JavaScript.

Mini CPU

The Pennsylvania State University

October 2023 – November 2023

University Park, PA

- Implemented a foundational data path architecture using Verilog, integrating pipelining for concurrent instruction execution.

Course Scheduler Project

The Pennsylvania State University

April 2023 – May 2023

University Park, PA

- Created a course scheduler application with a GUI, including both user and admin functionality.
- Developed with Apache Derby Database, SQL, and Java Swing.

WORK EXPERIENCE

Server/Host

Wild Ginger III

September 2018 – August 2023

New Hope, PA

- Delivered exceptional customer service by appropriately greeting and seating guests, taking accurate orders, and ensuring timely food delivery, resulting in high levels of customer satisfaction.
- Multitasked effectively by managing several customers in a fast-paced environment, creating a seamless dining experience.
- Collaborated productively with other restaurant staff, leading to a high level of service and guest satisfaction.
- Spearheaded the training of new staff.
- Managed transactions accurately, providing guests with a smooth payment process and enhancing their overall experience.

EXTRACURRICULARS

Google Developers Student Club

The Pennsylvania State University

August 2023 – December 2023

University Park, PA

- Participated in a community dedicated to exploring various software and building solutions in a learning environment.

Sigma Chi Fraternity Head Risk Manager

The Pennsylvania State University

August 2022 – December 2022

State College, PA

- Organized a team to oversee the safety and execution of fraternity events, effectively reducing potential issues and danger.

HONORS/AWARDS

- Summa Cum Laude, Central Bucks East High School, May 2021 (*GPA: 4.00/4.00*)
- President's Education Award: Outstanding Academic Excellence, May 2021
- The Pennsylvania State Provost Award

TECHNICAL SKILLS

Languages: Python, Java, SQL, C, Verilog, JavaScript, HTML, CSS

Libraries/Frameworks: React, Node.js, Git, AWS