

Dixon Zor

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EDUCATION

The Pennsylvania State University
College of Engineering
Bachelor of Science, Computer Science

Graduating: May 2025

PROFESSIONAL EXPERIENCE

The Human in Computing and Cognition Research Lab at PSU
Software Developer Intern

May 2023 – present
Penn State University Park

- Led a team through **50 different studies**, evaluating Cognitive Biases in Human-AI interactions.
- Developed 3 different applications to test cognitive biases using **Python, Java, and XML**.
- Created an LLM chatbot using Llama-2, fine-tuning the model with research data.
- Hosted 2 conferences for underclassmen on training AI models and understanding the generative AI boom.

Carlisle Construction
Front-end software Developer Intern

May 2022 – Aug 2022
Ritner Highway Carlisle, PA

- Worked With senior web/app developers on updating and maintaining the company's webpage using **JavaScript, CSS and Html5**.
- Collaborated on **API Integration** and developed functionality for the company's website and landing pages using **RESTful APIs**
- Utilized **version control systems** to manage code and streamline development processes, reducing the average project delivery time by 15%.

Penn State Brandywine IT Help deck
IT Help Deck/Customer Service Associate

Apr 2021 – May 2022
Penn State Brandywine

- Actively engaged with 5-10 customers daily, employing effective problem-solving strategies to address and resolve tech-related complaints.
- Lead the installation of over 30 desktop computers at the beginning of each semester.
- Oversaw 50 Laboratory and Library Computers for the school through monitoring, configuring, and maintaining all hardware and software systems throughout the school year.

SKILLS/INTERESTS

Python, C/C++, Java, Debugging, Bootstrap, Linux, GitHub/Gitlab, JavaScript (React, jQuery), HTML5, CSS3, RESTful APIs, Node.js Microsoft Suite

PROJECT EXPERIENCE

MySQL/Python

Computer Store Database management system

Nov 2024 – Dec 2024

- Designed a store database management system consisting of 12 tables, schemas, indices, and transactions using **MySQL**.
- Developed **command line user interface** to interact and manipulate inventory, along with detailed documentation.
- Implement authentication features and role specification for different users (admin, employee etc.).

C programming & Concurrent System

Dynamic Memory Allocator and Channel Synchronization with Scheduling

Feb 2023 – June 2023

- Developed a dynamic memory allocator including **malloc, calloc, realloc, and free**.
- Implemented channel-based synchronization to manage concurrent processes in a multi-threaded environment. (Feb 2024 - May 2024)

Assembly/Verilog

FPGA-Based CPU Development

Sep 2022 – Dec 2022

- Design and implementation of a custom CPU on an FPGA, primarily using **Verilog** for hardware description.
- Extensive use and understanding of assembly to design and complete the