

Dixon Zor

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OBJECTIVE

Computer science graduate with **2.5 years of experience** in software development, seeking an **entry-level/internship** position in Software Engineering or IT. Highly skilled in web and application development, with a deep understanding of data structures and system analysis. Incredibly passionate about solving complex problems and developing functional software systems and designs.

EDUCATION

The Pennsylvania State University

College of Engineering

Bachelor of Science, Computer Science

Graduating: Dec 2024

GPA: 3.1

PROFESSIONAL EXPERIENCE

The Human in Computing and Cognition Research Lab at PSU

Software Developer Intern

May 2023 – present

Penn State University Park

- Lead a team through **15 different experiments**, evaluating Cognitive Biases in Human-AI interactions.
- Develop up to 3 different applications to test cognitive biases using **Python, Java, and XML**.
- Develop Python Scripts and tKinter UIs for Experiment performance and Setup.

Web Development Internship -Carlisle Construction

Front-end software Development Intern

May 2022 – Aug 2022

Ritner Highway Carlisle, PA

- Developed and implemented a responsive design for a company website, resulting in a 25% increase in mobile traffic and a 15% increase in overall website traffic.
- Collaborated with back-end developers to integrate user-facing elements with server-side logic, resulting in a 20% reduction in page load times and improved website performance.
- 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 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

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 2023 – Dec 2023

- Design and implementation of a custom CPU on an FPGA, primarily using **Verilog** for hardware description.

LEADERSHIP EXPERIENCE

NSBE Member & Resident Assistant

- National Society of Black Engineers.
- Coordinated and Organized Campus Events and Activities as an RA.

Sep 2023 – May 2024

Sep 2021 – May 2021

