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   Graduating: Dec 2024
College of Engineering
Bachelor of Science, Computer Science   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.   Sep 2023 – May 2024
- Coordinated and Organized Campus Events and Activities as an RA.   Sep 2021 – May 2021