Dixon Zor

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EDUCATION

The Pennsylvania State University   Graduating: Dec 2024
College of Engineering
Bachelor of Science, Computer Science   GPA: 3.1

Objective: Software Engineering or IT Internship/Coop

SUMMARY

Computer science student with 2.5 years of experience in developing and implementing software solutions. Highly skilled in web and application development, with a deep understanding of data structures and system analysis. Passionate about solving complex problems and transforming abstract concepts into functional software designs.

PROFESSIONAL EXPERIENCE

The Human in Computing and Cognition Research Lab at PSU
Software Developer Intern   May 2023 – present

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

Web Development Internship -Carlisle Construction
Front-end software Development Intern   May 2022 – Aug 2022

- 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
Customer Service Associate   Apr 2021 – May 2022

- 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

- Coordinated and Organized Campus Events and Activities as an RA   Sep 2021 – May 2021
- National Society Of Black Engineers   Sep 2023 – May 2024