

VANESSA ELIZABETH MPOFU

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EDUCATION

Ithaca College, School of Humanities and Sciences
Bachelor of Science in Computer Science (GPA: 3.7/4)
Minor in Data Science

Ithaca, NY
Graduation: May 2025

Relevant Coursework: Operating Systems, Human-Computer Interaction, Data Structures and Algorithms, Agile Software Engineering, Programming Languages, Discrete Structures

TECHNICAL SKILLS

- **Languages:** JavaScript, Java, R, Python, C, SQL, TypeScript
- **Technologies:** React, MySQL, CSS3, HTML5, Node.js

RELATED EXPERIENCE

Summer Research Intern, Ithaca College, Ithaca, NY

May 2024 – Present

- Developing a course assistant web application supported by **Artificial Intelligence** to be used by Ithaca College students, to enhance their learning experience
- Implementing the application using **React** for the front end and **Node.js** for the back end, ensuring a responsive and efficient user interface
- Designing the user interface using **Figma**, focusing on intuitive navigation and user-friendly interactions to provide a seamless and engaging user experience

PROJECTS

C-Shell | [Github](#) |

Fall 2023

- Built a C-based shell program in **C**, capable of built-in command processing, enabling efficient execution and management of shell commands and scripts
- Initiated foreground/background process management and robust signal handling, demonstrating strong proficiency in systems programming and ensuring reliable program operation

Victoria Falls Website | [Github](#) |

Fall 2023

- Designed an interactive website using **HTML**, **CSS**, and **JavaScript** to provide personalized hotel, restaurant, and activity recommendations for individuals visiting Victoria Falls in Zimbabwe
- Utilized **Figma** for designing user interfaces and interactive prototypes, ensuring a user-friendly experience and effective communication of design concepts during the development phase

Online Library | [Github](#) |

Spring 2023

- Collaborated with a team of three members to design and develop an interactive online library simulation using **Java**, facilitating user-friendly management of digital books and resources
- Applied **Behavioral-Driven Development** (BDD) principles within an **Agile Scrum** framework, defining and validating user requirements through collaborative scenarios and automated tests
- Performed regular code reviews and knowledge sharing sessions within the team to maintain code quality and foster continuous improvement in development practices

Auto-DJ Simulation | [Github](#) |

Fall 2022

- Developed an interactive **Java** program as part of a team of three to maintain and manage a music library, including music selection and playlist creation
- Utilized **Object-Oriented Programming** principles, data structures, and **algorithms** for efficient music organization and playlist generation

OTHER EXPERIENCE

Peer Career Advisor, Ithaca College, Ithaca, NY
Present

August 2022 –

- Offer personalized assistance to at least five students per week, guiding them in refining their resumes and writing cover letters

- Provide comprehensive support and guidance to students on various career development topics during drop-in sessions, including job search strategies, interview preparation, networking techniques, and career exploration
- Actively promote upcoming Career Center events, workshops, and resources to students across campus

Student Leadership Consultant, Ithaca College, Ithaca, NY

May 2023 – August 2023

- Played a key role in preparing for the Fall 2023 jumpstart program by creating engaging and informative posters to promote the initiative on Instagram
- Facilitated communication with incoming students through email, providing them with important information and answering any queries about the jumpstart programs
- Assisted in the reorganization of the Student Activities Center (SAC), optimizing the space for more efficient use

Accounts Procurement Assistant, Ithaca College, Ithaca, NY

August 2022 – May 2023

- Monitored and approved supplier registration requests, ensuring compliance with institutional policies and procedures
- Maintained and regularly updated a comprehensive spreadsheet tracking supplier registration requests, facilitating efficient record-keeping and accountability
- Communicated professionally via email with suppliers, providing necessary information and guidance regarding registration processes and requirements

LEADERSHIP AND VOLUNTEER EXPERIENCE

President, Ithaca College International Club, Ithaca, NY

August 2024 –Present

Marketing Director, Ithaca College CS Club, Ithaca, NY

August 2024 - Present

Volunteer, Microsoft TEALS (Technology Education and Learning Support)

Jan 2023 – Aug 2023