

VICTOR TYLER JR

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EDUCATION

EASTERN MICHIGAN UNIVERSITY

Bachelor of Arts, Computer Science

Ypsilanti, MI

December 2025

SKILLS

Languages: Python, TypeScript, JavaScript, Java, Swift, C, C++, C#

Databases: MySQL

Frameworks/Libraries: SwiftUI, PyTorch, TensorFlow, Streamlit, React, React Bootstrap, Express, Node.js, Electron, Vitest

Development Tools: GitHub, Visual Studio Code, Xcode, Eclipse, Microsoft Office, Arduino IDE

Cloud/Platforms: AWS (EC2, Lambda), Linux (Ubuntu), macOS, Windows

WORK EXPERIENCE

HONEYWELL

Charlotte, NC

Software Engineer Intern | Full-Stack (React, Bootstrap, Streamlit, Typescript, Python, Linux) June 2025 – August 2025

- Developed a **full-stack** application that consolidated multiple database configuration workflows into a single interface, eliminating manual reconfiguration processes and accelerating trade show demo deployment by **75%**
- Researched multiple tech stack options, created detailed **wireframes**, and architected the project as a Monorepo to enable future mobile integration and code reuse for **scalable development**
- Built a configuration management system with real-time validation, unique ID checks, and error handling, ensuring reliable demo configurations and **data integrity** across multiple trade show scenarios
- Optimized **ML/AI** deployment application by resolving Python dependency discrepancies, enhancing Streamlit UI components, and creating comprehensive documentation with updated requirements

EASTERN MICHIGAN UNIVERSITY

Ypsilanti, MI

Research Assistant | Framework Creation for Department of Chemistry (Python, Linux) | [GitHub](#) Aug 2024 – April 2025

- Developed a Linux-based pipeline in **Python** to simulate and analyze autophagic vacuoles, improving research efficiency and boosting workflow speed by **20%**
- Automated** the pipeline and optimized CompuCell3D parameters, enhancing simulation speed and accuracy, leading to more reliable outputs

EASTERN MICHIGAN UNIVERSITY

Ypsilanti, MI

Teacher Assistant & Grader | Intro to Programming & Programming Data Structures (Java) Aug 2023 – April 2024

- Explained data structure functions and proper code etiquette to students improving their understanding of data structure logic, **object-oriented programming**, and algorithm efficiency

PROJECTS

KEEP OR DELETE

- As **Team Leader** for a six-developer group, I led the development of a cross-platform desktop application that streamlines file management—enabling directory selection, preview, renaming, and deletion. I also integrated a context-aware **AI assistant** for renaming and actively contributed to **sprint planning**, **software architecture design**, core feature integration, UI design, **API integration**, resolving merge conflicts, and writing **unit tests**. (JavaScript, Electron, Node.js, CSS, HTML, Chat GPT API, AWS Lambda, Playwright) | [Website](#)

COFFEE REST

- Developed a **machine learning** sleep optimization app for **iOS** devices. It features a custom-trained model that analyzes wake-up time, sleep duration, and caffeine intake to predict an optimal bedtime. (CreateML, CoreML, SwiftUI, Swift, Xcode) | [GitHub](#)

EMBEDDED ML MODEL – REAL TIME LED CONTROL

- Designed and **trained a multi-layer perceptron**; converted it to a space efficient **TensorFlow Lite** model and deployed it on an Arduino Nano 33 BLE Sense board for real-time pulse-width modulation LED control. (Python, C++, TensorFlow, Matplotlib, NumPy, Pandas)

LEADERSHIP EXPERIENCE

National Society of Black Engineers | Vice President

Sept 2024 – April 2025

- Forged partnerships with companies to coordinate events and trips, improving opportunities for NSBE and EMU students