VICTOR TYLER JR

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EDUCATION

EASTERN MICHIGAN UNIVERSITY Ypsilanti, MI
Bachelor of Arts, Computer Science December 2025
Cumulative GPA: 3.66/4.0; Dean's List 3x
Relevant Coursework: Algorithms & Data Structures, Neural Networks/Deep Learning, Embedded AI Systems

SKILLS

Languages/Frameworks: Java, Python, C++, JavaScript, TypeScript, React, Node.js, CSS, HTML, Electron, MySQL, PyTorch, TensorFlow, TFLite, Git, C#, C, Swift

Software/Hardware: Windows OS, Mac OS, Linux OS, Microsoft Office, GitHub, Visual Studio Code, AWS, Eclipse, Arduino IDE, Arduino Nano 33 BLE

WORK EXPERIENCE

HONEYWELL Charlotte, NC
Incoming Software Engineer Intern | iOS Development (Swift) Starting June 2025 – August 2025

EASTERN MICHIGAN UNIVERSITY Ypsilanti, MI
Research Assistant | Framework Creation for Department of Chemistry (Python, Linux) | [GitHub] Aug 2024 - Present
- Developed a Linux-based pipeline in **Python** to simulate and analyze autophagic vacuoles, improving research efficiency and boosting workflow speed by **20%**
- Utilized **Agile** methodologies to plan, discuss, and implement bi-weekly deliverables in collaboration with client
- **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
- Assisted instructor with final project development, ensuring students effectively retained course fundamentals and applied them in practical scenarios
- 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 | DESKTOP APPLICATION
- 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, GitHub Flow) | *[Website]*

HOSPITAL DATABASE MANAGEMENT APPLICATION
- Developed a responsive **Full-Stack** web application that allows users to securely access and manage their personal data through a dashboard. The application features a user authentication system with a login interface. Additionally, I implemented a **RESTful API** to facilitate communication between frontend and **MySQL** database. (React, TypeScript, Node.js, Express, MySQL) | *[GitHub]*

MATHEMATICS TABLE WEBSITE
- Developed an interactive web application that calculates and displays the results of various mathematical equations based on user-provided input, leveraging **JavaScript** for computational logic. The application features a clean, responsive interface for presenting equations and corresponding outputs. (JavaScript, CSS, HTML) | *[Website]*

LEADERSHIP EXPERIENCE

National Society of Black Engineers | Vice President Sept 2024 - Present
- Forged partnerships with companies and collaborated with other club leaders to coordinate events and trips, improving opportunities for NSBE and EMU students | *[Event]*
- **Led** weekly meetings focused on event planning, funding, and student retention