

# Tyler B. Terry

## SOFTWARE ENGINEER /WEB DEVELOPER

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### EDUCATION

Western Michigan University | Kalamazoo, MI

Bachelor of Science in Computer Science

The Web Developer Bootcamp 2023 | Udemy (Online)

Certificate of Completion

Kalamazoo Valley Community College | Kalamazoo, MI

Associate of Science in Computer Science

Expected Graduation August 2023

Combined Undergrad GPA: 3.3

June 2023

April 2020

### TECHNICAL SKILLS & TOOLS

**Languages:** Python, JavaScript, HTML, CSS, MySQL

**Technologies & Tools:** Django, Bootstrap, Tailwind, Matplotlib, Git/Github, Linux(Ubuntu), Virtual Machines

### PROFESSIONAL EXPERIENCE

WMU Advanced Manufacturing and Industry 4.0 Innovation Lab

Kalamazoo, MI

Software Engineer (Practicum Experience)

August 2022 – April 2023

- Played a crucial role in a **cross-functional team** of 25 individuals to design and implement an **Industry 4.0** web application, showcasing adaptability in an **Agile** environment and an understanding of development methodologies.
- Led project management tasks and the development of **scalable tools** including an admin UI, tablet interface, and real-time dashboard, ensuring project longevity and seamless handover to future teams, demonstrating robust leadership and forward-thinking.

### PROJECTS

**Yelp-like Application from Scratch** | *Node.js, Express, MongoDB, HTML, CSS, JavaScript*

- Developed a **full-stack** web application mirroring Yelp functionalities, demonstrating proficiency in handling complex database structures, user authentication, and frontend interaction.
- Incorporated robust security measures to **guard against common exploits** like SQL-Injection and XSS, showcasing a solid understanding of web application security.

**Boston Housing Price Prediction with AI** | *Python, scikit-learn, pandas, numpy*

- Developed an **AI-based system** to predict Boston Housing prices, showcasing proficiency in deploying **machine learning** models like Linear Regression and Random Forest, and utilizing various data preprocessing techniques, hyperparameter tuning via Grid Search, and performance evaluation using metrics like RMSE and R2 score.
- Demonstrated a solid understanding of AI workflows by contributing to developing a robust and intelligent predictive model, encompassing data preprocessing, **model training**, **hyperparameter tuning**, and **performance evaluation**.

**Workout and Nutrition Tracker (In Progress)** | *Django, MySQL, CSS, HTML, Tailwind, Javascript*

- Pioneering the development of a sophisticated Django-based web application that blends fitness tracking, nutrition data visualization, and **social platform functionalities**, showcasing exceptional design of robust and efficient database models and an engaging user interface.

### COMMUNITY INVOLVEMENT

Computer Club at Western Michigan University (CCAWMU) | Member

Spring 2022 - Present

- Active contributor, developing hardware and software projects, and fostering a productive computing environment.

National Society of Black Engineers (NSBE) | Diversity Advocate

Fall 2021 - Present

- Serving as an advocate for diversity in engineering, contributing to bridging industry-community gaps.