

Tyler B. Terry

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EDUCATION

Western Michigan University | Kalamazoo, MI

June 2023

B.S. in Computer Science

Coursework: Data Structures, Algorithms, Databases, Web Development, Machine Learning, Data Science, Project Management, Technical Communication, Probability and Statistics, Linear Algebra, Discrete Mathematics, Secure Systems, Digital Logic.

SKILLS & TECHNICAL TOOLS

Languages: Python, Javascript, PHP, SQL, HTML/CSS

Frameworks/Tools: Git, React, Django, WordPress, MySQL, Express, Bootstrap, Tailwind

Methodologies: Agile, B2C e-commerce, SWOT Analysis, Test-Driven Development (TDD)

Libraries & Analysis: collections, itertools, matplotlib, pandas, numpy

EXPERIENCE

Software Engineer (Part-Time) | *Elley Orem Collection*

January 2021 – Present

- Spearheaded the **WordPress** transition from B2B to B2C, amplifying consumer engagement by **50%** and **surging** profitability.
- Implemented a **dynamic storage** solution, hastening data retrieval by **20%** and bolstering efficiency.
- Collaborated with design teams to align software strategies, and championed the integration of **React**, **Angular**, and **Django**, yielding robust system enhancements.

Software Engineer Intern | *WMU College of Engineering and Applied Sciences*

August 2022 – April 2023

- Contributed to the design and implementation of an **Industry 4.0 manufacturing simulation**, educating faculty, students, and visitors on contemporary manufacturing concepts.
- Led the creation of a **software suite** managing over **20 processes**, boosting lab efficiency and user interaction.
- Actively engaged in a multidisciplinary 18-member team, leveraging **Agile**, **Test-Driven Development (TDD)**, and recurring **SWOT Analysis** for strategic development.

Python Programming Tutor | *Freelance*

June 2020 – July 2022

- Delivered Python tutorials and adaptive teaching techniques to over 100 students using real-world examples, raising comprehension by at least 43%.
- Assisted students in development, **debugging/troubleshooting**, and **problem-solving**, promoting hands-on learning.

PROJECTS (For more projects & live demos visit: tylerterry.tech)

AI-Powered 3D Product Designer | Javascript, React, Express, Vite, Threejs, DALLE API

- Developed a 3D product customization web application with **AI-driven logo & texture generation** via DALLE, and introduced features for **user downloads**, laying the groundwork for potential **SaaS** transformation.

E-Commerce Website | TypeScript, React, NextJS, ExpressJS, NodeJS, MongoDB

- Crafted a **MERN** e-commerce platform with Next.js server actions, dynamic TailwindCSS/DaisyUI interface, Next-Auth **authentication** (including Google login), and **optimized database** operations via Prisma.

J.A.R.V.I.S. Inspired Personal Assistant | Python

- I continuously refine a Python-based command line assistant akin to Iron Man's JARVIS, focusing on **task automation**, machine monitoring, and maximizing **workflow productivity**.