

MITCHELL DUFFY

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Bloomfield Hills, MI 48304

TECHNICAL SKILLS

Languages: C/C++, Python, Javascript, Typescript, Swift/SwiftUI

Frameworks & Libraries: React, Next.js, Flask, Node.js, Bootstrap, TailwindCSS, Pytest, Cypress

Databases & Tools: SQL (mySQL, SQLite, Postgres), No-SQL (Firebase Firestore, MongoDB), Figma

Other: REST APIs, Git, Agile/Scrum, UI/UX Design, Linux/Unix

EDUCATION

University of Michigan, Ann Arbor

Graduated December 2024

Bachelor of Science, Computer Science

Relevant Coursework: Data Structures & Algorithms, Web Systems,

Foundation of Computer Theory and Architecture, Computer Security

EXPERIENCE

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February 2022 — Present

Contractor

Houston, TX

- Conducted product beta testing, evaluating UI/UX design, functionality, and usability, and provided data-driven feedback to enhance the platform's user experience
- Developed and designed a blog/newsletter system to engage existing users and expand outreach, improving user retention and acquisition
- Reviewed and debugged the front-end design of the company's website, providing actionable feedback and peer reviews that helped enhance waitlist management and improve user engagement

CAEN Web Services - Michigan Engineering

July 2022 — December 2024

Web Developer

Ann Arbor, MI

- Develop and maintain web applications for the 13 departments of the College of Engineering, supporting affiliated projects, labs, research initiatives, faculty, and staff
- Collaborated directly with clients to deliver solutions for user interface design, data retrieval, processing, and overall web application functionality, enhancing usability and performance
- Formulated an automated transcription comparison tool, cutting costs by 50% and reducing transcription errors by 20%, improving lecture recording accessibility and quality for students

PROJECTS

Professional Portfolio Website (v2)

February 2025

- Built a website to showcase projects, technical skills, and experience, utilizing React, Next.js, and TailwindCSS frameworks
- Implemented responsive design and UI/UX best practices, enhancing experience across devices

Wildlife Spotter IOS App

January 2024

- Led a team of four developers to create a map-based social media platform, enabling users to post sightings of specific species and geotag their posts for others to visit
- Prioritized efficiency and simplicity in the app's design to ensure quick, intuitive use, allowing users to log sightings swiftly in case the animal moved away

Instagram Clone Website (Insta485)

January 2024

- Developed a full-stack Instagram clone using React (frontend), Flask (backend), and with a SQLite (database)
- Engineered a scalable REST API to abstract database access, enabling the users to perform key social media actions: logging in/out (basic authentication), posting, commenting, and liking posts