# MITCHELL DUFFY

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## 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

**Luci**                                                            **February  2022 — Present**

*Software Engineer*                                                              *Houston, TX*

- Collaborated with design and product teams to implement UI/UX improvements via Figma, based on user testing and feedback.
- Implemented SEO optimization strategies and accessibility best practices to improve visibility and user engagement.
- Reviewed and maintained the company's **front-end architecture**, increasing performance and accessibility of the marketing and waitlist pages.

**University of Michigan — CAEN**                                    **July 2022 — December 2024**

*Front-End 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
- Worked directly with clients and stakeholders to enhance site performance, improve UX, and reduce support tickets.
- Built an internal JavaScript tool integrating multiple APIs to automate transcription service comparisons, reducing costs by 50%.
- Participated in Agile sprints, Git-based workflows, and peer code reviews, delivering scalable solutions for faculty and labs.

## PROJECTS

**Local Company Template  Website —> Live Deployment**                       **May — June 2025**

- Spearheaded development of a Next.js-based website template aimed at helping local small businesses modernize their web presence and reach new customers.
- Led a team using Agile methodologies (standups, sprint planning) to design a scalable, responsive showcase site tailored for shops with minimal tech experience.
- Built a lightweight CRM-style system with PostgreSQL via Prisma ORM and NeonDB, enabling seamless updates to stock and listings.
- Designed an intuitive front-end UI with TailwindCSS and modular React components, focusing on accessibility and mobile responsiveness.

**Wildlife Spotter IOS App —> Demo Video**                                   **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

## TECHNICAL SKILLS

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

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

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

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