

Varshil Medidhi

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EDUCATION

Michigan State University

Anticipated Graduation: December 2026

B.S. Computer Science, Minor in Media Information

- **Relevant Coursework** : Data Structures and Algorithms, Operating Systems, Object-Oriented Programming, Matrix Algebra, Differential & integral calculus, Discrete Mathematics

TECHNICAL SKILLS

Languages & Databases: Python, C, C++, SQL (Postgres), JavaScript, HTML, CSS, MongoDB, TypeScript

Frameworks & Services: React.js, Next.js, Node.js, Flask, Tailwind, REST API, WebRTC, Socket.io, Pandas, NumPy, Matplotlib, Tkinter, Postman, Git, Github, Chart.js, Three.js, Bootstrap, Jquery, MSOffice, PowerBI

WORK EXPERIENCE

I.T Engineer | *MSU-Information Technology*

September 2024 – Present

- Orchestrated the upgrade and deployment of over **250** hardware devices and software systems, slashing system downtime by **60%**.
- Automated preventative maintenance workflows and **IT support processes**, increasing team productivity by **70%** and reducing issue resolution times by **50%**.
- Overhauled the center's digital presence, driving a **75%** boost in online engagement through strategic **website enhancements**.

Web Developer Intern | *Apex Aesthetics Empire*

December 2024 – January 2025

- Architected a luxury aesthetic services platform with React that processed **\$50K+** in bookings through **Stripe integration** while maintaining **99.9% uptime** and sub-2 second load times.
- Developed client scheduling by implementing a dual-booking system handling both service appointments and professional tutorials, resulting in **200%** increase in booking efficiency.
- Engineered a premium **UI/UX** with custom animations and metallic gradients that increased user engagement by **150%** and reduced bounce rates to under **20%**.

PROJECTS

CodeSphere | *Next.js, React, Tailwind, Convex*

January 2025 – February 2025

- Built an online IDE, enabling users to write and execute code in JavaScript with access to **9** additional languages upon subscription, contributing to a **150%** increase in user engagement.
- Integrated community-driven features, including code snippet sharing, searching, and commenting, fostering a growing user base with a **20%** increase in active community participation within the first month.
- Constructed a user analytics dashboard displaying code execution history, top languages, and snippet interactions, resulting in a **30%** improvement in user retention and a **95%** customer satisfaction rate post-subscription.

InterviewFlow | *Next.js, TypeScript, Stream, Convex, Clerk*

December 2024 – January 2025

- Developed a full-stack remote interview platform integrating **Stream** for **real-time video communication** using **Next.js**, **TypeScript**, and **Convex**, enabling seamless video calls, screen sharing, and screen recording while supporting **30+** concurrent sessions.
- Implemented robust authentication with **Clerk**; designed **dynamic and static routes** using server components and layouts to optimize performance, resulting in a **25%** improvement in load times and user navigation.
- Created a responsive user interface with **Tailwind CSS** and **Shadcn components**, ensuring a consistent, professional design across the platform and leveraging server actions to reduce latency by **20%**.

VibeVault | *MERN, Socket.io, TailWind, daisyUI*

November 2024 – December 2024

- Engineered a **real-time** chat application using **Socket.IO** and **React**, achieving **< 100ms** message delivery latency while supporting **100+** concurrent users with **real-time status updates and message sync**.
- Produced a secure authentication system handling **1000+** user sessions with **JWT tokens**, reducing unauthorized access attempts by **95%** through implementation of protected routes and automatic token refresh every 7 days
- Architected a MERN stack application with **40%** improved load times using **Zustand** state management, supporting **5MB+** image sharing, and achieving **95%** faster message retrieval through optimized **MongoDB** queries.