

Vishal Meda Srinivasa Murthy

Dearborn, MI | +1 (313) 675-1143 | vishalms@umich.edu | [linkedin.com/in/msvishal](https://www.linkedin.com/in/msvishal) | github.com/msvish | vishalms.com

OBJECTIVES

Graduate student in **Computer and Information Science** with **2+ years** of **full-stack development** experience, skilled in building scalable, user-focused applications. Actively expanding expertise in machine learning to develop intelligent, data-driven systems. Eager to contribute to cutting-edge solutions at the intersection of software engineering and AI.

SKILLS

Programming Languages: Python, C, JavaScript, TypeScript, JAVA, PySpark.

Web Development Frameworks: React, Angular, Ionic, Flask, NodeJS, NestJS, Tailwind CSS.

Database: MySQL, MongoDB, PostgreSQL.

Developer Tools: Git, Docker.

Cloud Platforms: AWS, GCP.

Tools: Microsoft Word, PowerPoint, Tableau, Excel, JMeter, JUnit.

EDUCATION

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|---|---------------------------------------|
| University of Michigan - Dearborn Master's, Computer and Information Science | 2024-2026 GPA - 3.95 |
| K S Institute of Technology Bachelor of Engineering, Computer Science | 2017-2021 GPA - 7.9 |

PROFESSIONAL EXPERIENCE

Evobi Automations Pvt Ltd | Bengaluru

Full Stack Developer | 10/2023 - 07/2024

- Architected and implemented the complete backend infrastructure for **Port11**, an embedded systems learning platform, using **NestJS** and **TypeScript** with standard industry practices.
- Engineered core business logic for scoring calculations and results management with **MongoDB**, while implementing **CASL.js** for role-based security controls.
- Designed **Mongoose** middleware and aggregation pipelines to optimize complex document operations and data retrieval workflows.

Web Application Developer | 06/2022 - 09/2023

- Engineered **AppMode** feature with AI capabilities using **Teachable Machine** and **TensorFlow.js**, integrating speech, facial, and object recognition with **react-speech-recognition**.
- Developed an innovative **live code generation** system for **ScratchBlocks** MIT that dynamically produces **C** code in real-time as users add blocks to the workspace.
- Designed a user-friendly ESP flasher tool as a standalone React application for seamless firmware updates on Espressif microcontrollers.
- Led codebase migration by converting React Class components to Functional components while improving code quality and resolving critical bugs.
- Implemented a feature using custom URI registration in the Windows registry, allowing a browser window to pop up and navigate directly to the desktop application.
- Built an interactive game engine for kids using **BabylonJS**.

All Blue Solutions | Remote Work

Software Developer | 07/2021 - 02/2022

- As a Front-End Developer, I worked on different frameworks such as **Angular** and **Ionic**.
- Involved in post-production development support activities such as changes in UI functionalities, debugging, and bug fixing.
- Worked on an integrated chatbot application.
- Worked on the development of a mobile app for the same application using **ionic**.

PROJECTS

1. Project Title: EVA (Email Voice Assistant)

Description: EVA is a web-based **Chrome extension** for the visually impaired using Interactive voice response, thus enabling everyone to control their mail accounts using their voice only and to be able to read, send, and perform all the other operations. The system will prompt the user with voice commands to perform certain actions and the user will respond to the same.

2. Project Title: NilConnect

Description: A video conferencing application built on top of **Jitsi's** tools using **ReactJS** and **Firebase**.

3. Project Title: Pizza Maker

Description: A basic **ReactJS** application built using libraries such as **React DnD** and **Material UI**.