

Michael Mark

Embedded Software Engineer | Full-Stack Developer

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TECHNICAL SKILLS

Languages: C#, C, C++, Python, MATLAB, Java, JavaScript, HTML, CSS, SQL

Frameworks & Tools: .NET (WPF, WinForms, ASP.NET MVC), Git, Azure DevOps, IBM ELM, JavaFX, Node.js

Software & Platforms: VS Code, Visual Studio, MATLAB, Simulink, Eclipse, IntelliJ, Microsoft, Adobe

EDUCATION

University of Michigan, Ann Arbor, College of Engineering

2021

BSE, Industrial & Operations Engineering

Saginaw Valley State University

2022

MS, Computer Science and Information Systems | GPA 3.97/4.0

PROFESSIONAL EXPERIENCE

Nexteer Automotive

2022 – 2025

Embedded Software Engineer II

Saginaw, MI

- Implemented AUTOSAR embedded components using Simulink and MATLAB
- Appointed Model-Based Design (MBD) administrator, upgrading toolchains and resolving 100% of active and 90% of backlog process issues
- Built and flashed integrated software onto ECUs, working with system engineers to validate hardware functionality

DataAnnotation

2024

AI Trainer

- Evaluated AI model outputs for accuracy, safety, and relevance
- Gained exposure to Go, Swift, React, and TypeScript

PATHSIM (University Research Project)

2020 – 2021

Software Engineer

- Led a team of students to create realistic contact tracing using 4G LTE log data for Master's thesis
- Improved pathfinding performance by 50% using Dijkstra's algorithm, binary matrices, and A* method

PROJECTS

Peer Review Manager (.NET WPF and ASP.NET)

2023 – 2024

- Developed a software app in the .NET framework that uses IBM APIs, now used by 1,000+ engineers globally
- Trained engineering team on Git collaboration to simultaneously work on features and make updates

SheetMuse (Java, JavaFX, MySQL, FTP)

2022

- Developed a CRUD application which organizes personal collection of sheet music via FTP

MeetMinder (Team Collaboration App, AdobeXD)

2020

- Led a team through the SDLC phases including Software Planning, Case Analysis, Requirements (SRS), and Prototyping
- Developed a team collaboration app with real-time location tracking and notifications, enhancing meeting coordination

ADDITIONAL EXPERIENCE

Self-Employed Landlord

2009 – Present

- Manage leasing, maintenance, and finances across multiple rental properties, demonstrating long-term ownership and accountability