

Michael Mark

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LANGUAGES & PLATFORMS

- **Languages:** C#, MATLAB, Java, JavaScript, C, Python, C++, HTML, CSS, PHP, Visual Basic, SQL
- **Platforms:** Visual Code/Studio, Eclipse, Git, IntelliJ, JavaFX, Azure DevOps, IBM CLM

EDUCATION

Saginaw Valley State University

May 2021

MS, Computer Science and Information Systems, 3.971/4.0 GPA

University of Michigan, College of Engineering

December 2011

BSE, Industrial & Operations Engineering

EXPERIENCE

Nexteer Automotive

December 2022 – Present

Embedded Software Engineer II

Saginaw, MI

- Developed SWIFT-level handcode and autocode in C for AUTOSAR embedded components
- Utilized MATLAB, Simulink, and Polyspace to design and test components following MISRA standards
- Led team Git-based projects using C# .NET framework which connect to various APIs (IBM CLM)

PATHSIM

April 2020 – May 2021

Contact Tracing via Cell Phone LTE log data

- Led a team of 3 over a school year to create realistic contact tracing using 4G LTE log data
- Used algorithms to optimize path finding, such as Dijkstra's algorithm, Binary Matrices, and the A* method
- Simulated over 1000 paths in multiple tests using MATLAB, Java, C++, and Python

Personal Projects

2021 – Present

SheetMuse

- Built a sheet music library application on my own using JavaFX and SceneBuilder from scratch
- Connected the app to a MySQL database, which allows it to create, read, update, and delete records via FTP

MeetMinder

- Led a team through Software Planning, Case Analysis, Requirements (SRS), and Prototype Designing stages
- Created entire app prototype and flowchart with Adobe XD

General Motors Repurchase Coordinator (Morley)

July 2018 – July 2020

- Handled vehicle repurchases for General Motors customers going through Lemon Law buybacks
- Obtained Agent of the Month twice, working over 60 cases simultaneously with a >90% approval rating
- Promoted from Roadside Assistance to Premium, then upgraded to Repurchase Coordinator within 1 year

Self-Employed Landlord

2009 – Present

- Invested in over 35 investment properties in the Saginaw County area after the 2008 Mortgage Crisis
- Quickly learned carpentry, plumbing, and electrical skills for remodeling and repairs
- Joined the Saginaw Landlords Association and obtained REALTOR licensure under Berkshire Hathaway

University of Michigan LSAIT

2007-2008

Computer Technician

Ann Arbor, MI

- Serviced and repaired all the computers in the LS&A college at the University of Michigan