

# Christopher Matthew Nosowsky

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## Education

Michigan State University; East Lansing, MI

### Master of Science, Computer Science

May 2024

- GPA: 4.00/4.00

### Bachelor of Science, Computer Science

May 2021

- GPA: 3.77/4.00

## Professional Experience

General Motors; Warren, MI

### Software Engineer

June 2021 - Present

- Designed and built a self-sustainable machine learning microservice in Python for predicting optimal reflash time for vehicle campaigns, saving SMS carrier costs and resource usage
- Worked with data team to deliver Power BI financial and reflash dashboard reports to help user visualize and compare data across vehicle architecture, campaign types, and global carrier providers
- Created database schemas across Hive and Oracle DB to preprocess, postprocess, and store vehicle connectivity data for pattern recognition towards identifying feature set for a machine learning model

### Infotainment Software Engineer Intern

June 2020 - August 2020

- Developed standalone GUI parsing tool in Python for validating calibration data set, provided to the calibrations domain team to identify calibration duplicates, mismatched types, and improper metadata before database release
- Updated Java and native API's in model year 2022 vehicles to support newly generated calibration ID's, allowing the design release engineers to maintain cleaner database separation between virtual cockpit unit and center stack modules
- Collaborated with product owner, architects, developers, and quality assurance discussing acceptance and testing criteria for user stories to develop features that are in line with product roadmap

Michigan State University Federal Credit Union; East Lansing, MI

January 2020 - April 2020

### Software Quality Assurance Intern

- Developed Selenium test scripts in Java to help drive automation testing to the team, reducing time in test
- Claimed multiple JIRA bug and defect tickets for functional testing, creating pass/fail test cases to determine if acceptance criteria is met to stage for production
- Worked in test database performing SQL queries to retrieve test account numbers, loan types, and addresses to report in smoke tests for validating data integrity in software build

Amerisure Insurance; Farmington Hills, MI

May 2019 - August 2019

### Business Intelligence and Data Warehouse Intern

- Worked in ODI Studio to create mappings, load plans, scenarios, tables, semantic views in the canonical and dimensional models for each sprint, helping reduce errors during ODI development
- Created PL/SQL validation scripts for testing against faulty business logic in the data warehouse, allowing for a more seamless delivery to production in each sprint
- Utilized Keras deep learning library in Python to deploy a data dictionary for training claim notes and creating a neural network for vectorizing data, allowing for autonomous classification of claim types in the Amerisure claims center

Spartan Blockchain Solutions; East Lansing, MI

Sept. 2018 - May 2021

### Senior Blockchain Developer

- Lead developer behind student loan application, *SmartiFi*, created using the MEAN stack to provide as a platform for alumna to issue loans and support online payments
- Migrated organization website to Angular framework and deployed server code to Heroku, improving code modularity
- Presented engagement to attendees at the Spartan Blockchain & Innovation Competition, receiving the "Best Pitch" award by providing 10+ companies with innovative knowledge on blockchain adoption in the educational department

## Training & Skills

- **Languages:** Python, C/C#/C++, SQL, HTML/CSS, Java, JavaScript, PHP, TypeScript, Lua, Dart
- **Frameworks:** Angular, ASP.NET, React, React Native, Node.js, Flask, Selenium, Flutter
- **Other:** JIRA, Git, Gerrit, TFS, Jenkins, PowerBI, Kafka, AWS, Azure, MongoDB, Hive, Agile, TDD, AI/ML, UML

## Additional Activities

- Programmed Google Play Android Application, *Serial Killer Quiz*, acquiring 1000+ installs
- Deployed PHP website, *proximityracing.com*, using AWS, MySQL, and Apache web server