1269 Crowndale Lane,
Canton, MI 48188

Michael Mroczka
MichaelMroczka.com

513.371.4598
michael.mroczka@gmail.com

EXPERIENCE

General Electric: Aviation   *Digital Technology Leadership Program*   **2017-Present**
- Implemented Apache Solr search engine for small production environment saving $200,000 in third party licensed software
- Engineered framework for analysts to chain ~170 "warning" indicators together to find internal data leaks
- Lead technical interviews for the team resulting in three new full-time hires
- Implemented Java API endpoints for business-facing application using Spring Boot, Hibernate, & MyBatis 3
- Stopped team from emailing code to each other and led them to adopt GitHub and Git CLI through several training sessions
- Accelerated $6,300,000 cash opportunity by programming backend SQL tool for inventory reduction

General Electric: Aviation & Digital   *Software Engineering Internship*   **2016 - 2017**
- Designed user stories, requirements, and wireframes for an Exit Automation project that monitors user activities using big data analytics — alerting the IT team to potential insider threats
- Taught and directed technical interview preparation sessions to fellow interns

Harmon Kardon International   *Software Engineering Internship*   **2014 - 2015**
- Updated design and test documents using program to track status of 200+ bugs
- Alpha tested amplifiers and speakers — found two bugs during the pre-launch of a speaker

EDUCATION

Online   **GEORGIA INSTITUTE OF TECHNOLOGY**   **2018 - Expected 2019**
M.S.E. in Computer Science with Artificial Intelligence concentration
- **Coursework**: Advanced Networking; Intro. to Information Security; Software Analysis & Testing; Software Architecture
- 2018 SCLA Honor Society member
- Team Lead in Software Architecture class

Dearborn   **UNIVERSITY OF MICHIGAN**   **2014 - 2017**
B.S.E. in Computer Science with Software Engineering concentration
- **Coursework:** Advanced C++; Algorithm Design; Data Structures; Object-Oriented Programming
- **Teacher's Assistant:** Computer Science I, Computer Science II, & Data Structures & Algorithm Analysis
- Dean's List 2015
- ICPC Programming Competition Participant 2015 & 2016
- Association for Computing Machinery (ACM) member

PROJECTS

- **L.A.T.E Chrome Extension:** Chrome extension helping language learners increase passive study time by swapping words on webpage into their target language of learned vocabulary words from popular Duolingo application.   Angular, HTML, CSS
- **Minesweeper Web Application:** A web-based version of minesweeper with beginner, intermediate, and advanced modes
- **VIM Keyboard:** Scripts to enable global Vim-like key bindings allowing people to move between programs & text more easily

ADDITIONAL EXPERIENCE & AWARDS

- **Treehouse Hackathon Winner:** 1st in US; 2nd place globally in Treehouse learning hackathon against 72 DTLPs across 14 countries
- **2x "Above & Beyond" Winner:** Hundreds of dollars in gift cards given for going "Above & Beyond" what is required
- **Nominated "Best Digital Technology Program member":** 4th out of 47 program members
- **YouTube Instructor, Computer Science:** Basic lectures on CS concepts including data structures and algorithms
- **Leadership Experience:** GE Crotonville Leadership Training, SWE Class Team Lead; President of Math & Physics Club

LANGUAGES & TECHNOLOGIES

- **Programming Technologies:** IDEA IntelliJ • Visual Studio 2013 • MSQL Server • REST
- **Databases:** Microsoft SQL Server • Hibernate • MyBatis 3 • MongoDB • Apache Solr • PostgreSQL
- **Methodologies:** Agile • Scrum • Kanban

	Java	Python	C++/C#	JavaScript	HTML/CSS	Angular	PHP
Skill Level	*Skilled*	*Proficient*	*Proficient*	*Proficient*	*Proficient*	*Novice*	*Novice*