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**

Two-year rotational program with 6-months of work experience in each Backend, Full Stack, Data Analytics & Cyber Security

- 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 reduce false positives of internal data leaks
- Lead technical interviews for the team resulting in three new full-time hires for GE Aviation
- Implemented Java API endpoints for project management budgeting tool to improve shared budget information
- Spearheaded and trained team to adopt GitHub and Git CLI, improving speed of development and introducing version control
- 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 — identified and solved two bugs during the pre-launch of a speaker

EDUCATION

Georgia Institute of Technology **Master of Science** **2018 - Expected 2019**

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

University of Michigan **Bachelor of Science** **2014 - 2017**

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*