1269 Crowndale Lane,
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# Michael Mroczka
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## 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
**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* |