

# Madeline Mooney

(585) 363-1526  
✉ m.mooney098@gmail.com  
📄 maddiemooney.github.io

*Software engineer looking to continue a career developing full-stack cloud applications.*

## Experience

- Jul 2021 **Software Engineer, M&T Bank.**  
Present Mortgage Origination - Created internal tools in C# utilizing APIs to improve customer and loan officer experience.  
Commercial Credit Risk - Modernized lending risk grade generation web application in C# and Angular JS.  
Member of the Technology Development Program, Chair of Diversity and Outreach Committee in Campus Recruiting.  
2nd Place Concept Winner in Leadership Development Innovation Sprint Program.
- Jun 2020 **Vulnerability Research Intern, Raytheon CODEX.**  
Aug 2020 Remote Intern on the Cybersecurity Tools and Services team.  
Optimized Linux build pipeline script execution time by rewriting files from Python to C.
- May 2019 **Software Engineering Co-op, Moog Inc.**  
Dec 2019 Intern on the IT Solutions team.  
Implemented IoT architecture to gather data from edge devices and alert users using Microsoft Azure resources.  
Developed test suite for enterprise Java web apps to integrate with Microsoft Azure CI/CD development.
- Aug 2018 **Software Engineering Co-op, Plexus Corp.**  
Dec 2018 Intern in the Software Group.  
Implemented integration test structure that utilized DDS protocol to communicate between software items.  
Validated medical device software as part of FDA approval process.
- May 2018 **Firmware Engineering Co-op, AMD.**  
Aug 2018 Intern on the Diagnostics and Tools team.  
Automated execution of system level tests and reported test results through web interface.  
Designed and implemented interface for reserving and offlining test systems.
- Aug 2017 **Teaching Assistant, Rochester Institute of Technology.**  
May 2019 Head TA for Intro to Computer Engineering, Digital System Design I.  
Prepared lab exercises, graded lab work and reports, held weekly mentoring meetings and office hours.  
Recipient of RIT CMPE Fall 2017 Teaching Assistant Award.

## Projects

- 2020 **Hand Washing Monitoring Solution.**  
Multidisciplinary capstone project following an engineering design process in order to design a fully tested and documented prototype for potential market.  
Reminds, monitors, and coaches hospital workers' hand washing process to reduce healthcare acquired infections.
- 2020 **Quarantine Food Storage, [github.com/maddiemooney/QuarantineFoodStorage](https://github.com/maddiemooney/QuarantineFoodStorage).**  
Monitors grocery decontamination process, and generates alerts for out of stock items.  
API written in C#, Android app written in Kotlin.
- 2018 **WriteBot, [github.com/maddiemooney/writebot](https://github.com/maddiemooney/writebot).**  
Repurposing CD drives to create a mini CNC plotting machine.  
Rewrote the stepper motor library for Arduino, other functionality written in Arduino C and Python.

## Education

- 2016 - 2021 **Rochester Institute of Technology.**  
Bachelor of Science in Computer Engineering, Cum Laude  
Minors in Computer Science, English  
3.43 GPA - Kate Gleason College of Engineering Dean's List

## Skills

- Languages C#, Java, Python, C, JavaScript (Angular, React)  
Tools/Misc Git, Microsoft Azure Cloud, Agile Development