

# ANDY MAHONEY

## Computer Scientist

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📍 Louisville, KY

🔗 <https://github.com/Saious119>

## EXPERIENCE

### App Developer I

#### UPS

📅 March 2022 - Present 📍 Louisville, KY

- Worked in the modernization group, solo building new apps from the ground up on .NET 6, using new Rest APIs and Blazor
- Updated legacy C, C++, and .NET Framework apps using .NET 6
- Added new features such as Azure login support and implementing No SQL databases to older applications
- Migrated apps from windows server 2016 to Open Shift Container Platform 4

### Software Engineering Intern

#### UPS

📅 June 2021 - February 2022 📍 Louisville, KY

- Performed security patches on ASP.NET web apps including moving apps from .NET Framework to .NET 6
- Used SonarQube to detect and resolve bugs, security flaws, and code smells of ASP.NET web apps and worked on automation and test pipelines with Jenkins and ZAP
- Learned and Implemented in daily work life the principles of DevOps and Agile development
- Wrote a new database library to be used for C# web apps that use large data sets for critical operations

### Lab Director of the

### Clarkson Open Source Institute

#### Clarkson University

📅 August 2017 - April 2021 📍 Potsdam, NY

- Managed the research lab, including finances, resources, and resolved conflicts
- Taught Workshops on Fortran 77, Fortran 18, and popular Esolangs
- Made a webserver for personal website (www.fortrash.com)
- Gave several Lightning Talks (5 minute CS presentations)
- Performed required meeting tasks, took meeting minutes, counting votes, etc.

### Undergraduate Researcher

#### Clarkson University

📅 September 2017 - August 2020

- Worked with Dr. Banavar to detect stress in user voices with home voice assistants, using technologies like AWS Lambda, C++, Python, and Matlab
- Worked with Dr. Banavar to create a software control scheme for turtle bots, using data gathered from an EEG headset

## EDUCATION

### Bachelor of Science, Computer Science

#### Clarkson University

📅 August 2017 - May 2021

## PROJECTS

### Personal Website

- Setup an Nginx webserver to create a personal website using Astro.js

### Dungeon-Redux

- A rogue like survival game written in C#
- Written with the Monogame library for graphics
- Distributed from personal website; currently in Alpha

### Discord Bots

- Made markov chain based text generator bots in Go
- Made several bots in Discord.js
- Made a bot able to scrape the web for images and play audio in voice chat
- Made two discord bots in Discord.NET capable of using slash commands to interact with a MongoDB database hosted on Atlas

### Manga Tracker Web App

- A web app made in ASP.NET Blazor on .NET 6
- Supports OAuth with Google and local DB login options
- Users can store and keep track of their manga collection with a MongoDB database
- Currently running on an Ubuntu server and publicly available on [www.sixtrash.com](http://www.sixtrash.com)

## SKILLS

- Programming languages:
  - C#, C++, Go, Python, Javascript, Rust, Fortran 77, Fortran 18, Java, Matlab, HTML and CSS, C, SQL, LaTeX, N1QL
- Tools:
  - Unreal Engine 4, Unity, Monogame, AWS, Alexa Skills, Google Actions, SSH, nginx, git, ROS, Jenkins, Red Hat Openshift, OWASP ZAP, SonarQube, MongoDB, ASP.NET, Couchbase DB, Visual Studio 2022
- Foreign Languages:
  - French (intermediary)
  - Japanese (Basic/Novice)