

ANDY MAHONEY

Computer Scientist

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Queensbury, NY

EXPERIENCE

App Developer I

UPS

March 2022 - Present Louisville, KY

- Worked in the modernization team building new apps on the newest dotnet platforms
- Updated old apps using new programming languages and platforms.
- Added new features such as Azure login support to older applications

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 reduce technical debt of ASP.NET web apps and worked on automation and quality 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

- Took meeting minutes
- Gave several in Lightning Talks (5 minute CS presentations)
- Made a webserver for personal website (www.fortrash.com)
- Taught Workshops on Fortran 77, Fortran 18, and popular Esolangs

Undergraduate Researcher

Clarkson University

September 2017 - August 2020

- Worked with Dr. Banavar on detecting stress in user voice using voice home assistants (May 2018 - September 2019)
 - Using AWS Lambda, C++, Python, and Matlab
 - Take in voice as input, run it through an Algorithm, and give a result all through smart home and IOT devices
- Using Python, after receiving data from an EEG headset on brainwave activity, translate changes in activity to a control scheme for turtle bots

EDUCATION

Bachelor of Science, Computer Science

Clarkson University

August 2017 - May 2021

PROJECTS

C-String data structure for Fortran 77

- Developed a C-string like data structure for the Fortran 77 language using a subroutine and designing input and output for a character array

Personal Website

- Used the Nginx webserver to create a personal website to host information about me, located at www.fortrash.com

A Rustacean's Text Editor

- Used the Rust programming language to write a terminal based text editor with macros and text highlighting as well as version control and virtual desktops

Dungeon-Redux

- A rogue like survival game written in C#.
- written with the Monogame library for GUI edition
- Currently still in development but is being distributed from personal website in Alpha

SKILLS

- Programming languages:
 - C#, C++, Go, Python, Rust, Fortran 77, Fortran 18, Java, Matlab, Javascript, 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
- Foreign Languages:
 - French (intermediary)
 - Japanese (Basic/Novice)

LEADERSHIP

- President, Webmaster and Historian for Alpha Phi Omega, Mu Omicron Chapter
- President and co-founder of the Clarkson University Tea Club