

ANDY MAHONEY

Computer Scientist

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📍 Queensbury, NY
🔗 <https://github.com/Saious119>

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EXPERIENCE

Paid 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
- Worked with Dr. Banavar on making an EEG control scheme for robots. (January - May 2018)
 - Using Python, after receiving data from an EEG headset on brainwave activity, translate changes in activity to a control scheme for turtle bots.
- Worked with Dr. Tamon on visualizing Quantum Walks. (September 2017 - January 2018)

Lab Director of the Clarkson Open Source Institute

Clarkson University

📅 August 2017 – Present 📍 Potsdam, NY

- Took meeting minutes
- Gave several in Lightning Talks (5 minute CS presentations)
- Made a webserver for personal website (www.fortrash.com)
- Worked on robotic systems involving Turtle bots
- Imaged and maintained lab machines
- Taught Workshops on Fortran 77, Fortran 18, and popular Esolangs

Software Engineering Intern

UPS

📅 June 2021 – August 2021 📍 Louisville, KY

- Performed security patches on ASP.NET web apps
- Used SonarQube to reduce technical debt of ASP.NET web apps
- Learned and Implemented in daily work life the principles of DevOps and Agile development

PRESIDENT OF ALPHA PHI OMEGA

- Held the e-board positions of President, Webmaster and Historian
- Hosted and participated in several community service events

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, Haskell, Fortran 77, Fortran 18, Java, Matlab, Javascript, HTML and CSS, C, SQL, Flex and Bison, VHDL, Nim, LaTeX, NIQL, MongoDB, ASP.NET, SignalR
- Tools:
 - Visual Studios, PuTTY, Unreal Engine 4, Unity, Monogame, Amazon Lumber Yard, AWS, Alexa Skills, Google Actions, VIM, SSH, nginx, git, ROS, Jenkins, Red Hat Openshift, OWASP ZAP
- Hardware:
 - Raspberry Pi, Arduino Uno/Due/Mega, ESP8266, Built and repaired computers
- Foreign Languages:
 - French (intermediary)
 - Japanese (Basic/Novice)

CLARKSON UNIVERSITY TEA CLUB

- Founder and President of Clarkson University