ANDY MAHONEY

Computer Science Undergraduate

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📍 Potsdam, NY
 https://github.com/BoneKing

EXPERIENCE

Paid Undergraduate Researcher

Clarkson University

📅 September 2017 – September 2019

- 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)

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Clarkson Open Source Institute

Clarkson University

📅 August 2017 – Present   📍 Potsdam, NY

- 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 Esolangs
- Held the position of meeting minutes
- Current Lab Director

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Tech Associate

Staples

📅 July 2016 – August 2017   📍 Queensbury, NY

- Performed evaluation and intake write ups on incoming PCs
- Fixed broken PCs
- Sold new PCs, routers, printers, and other consumer tech.

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 tool to create a personal website to host information about me, it can be found at www.fortrash.com.

A Rustacean's Text Editor

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

SKILLS

- Programming languages:
  - C++, Python, Rust, Haskell, Fortran 77, Fortran 18, Java, Matlab, Javascript, HTML and CSS, C, Flex and Bison, VHDL, Nim, LaTex
- Tools:
  - Photoshop,Excel, PowerPoint, Word, Visual Studios, PuTTY, Unreal Engine 4, Amazon Lumber Yard, AWS, Alexa Skills, Google Actions, VIM, SSH, nginx
- Hardware:
  - Raspberry Pi, Arduino Uno/Due/Mega, ESP8266, Built and repaired computers
- Foreign Languages:
  - French

ALPHA PHI OMEGA

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