ANDY MAHONEY

Computer Science/Computer Engineering Undergraduate

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

EXPERIENCE

Paid Undergraduate Researcher
Clarkson University

📅 September 2017 – Present   📍 Potsdam,NY

- Worked with Dr. Banavar on detecting stress in user voice using voice home assistants
  - 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.
  - 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

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Clarkson Open Source Institute
Clarkson University

📅 August 2017 – Present   📍 Potsdam,NY

- Participated in Lightning Talks (5 minute CS presentations)
- Made a webserver for person website (www.fortrash.com)
- Worked on robotic systems
- Hosted Workshops
- Did meeting minutes

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Tech Associate
Staples

📅 July 2016 – August 2017   📍 Queensbury,NY

- Perform evaluation and intake write ups on incoming PCs
- Fixed broken PCs
- Sold new PCs, routers, printers, etc.

VOLUNTEER WORK

Lights and Sound Technician
Charles R. Wood Theatre

📅 2013–2016   📍 Queensbury,NY

- Worked in the lights and sound booth during rehearsals and shows
- Learned the technical sides of theatre and working with a large group of people with a similar goal
- Learned how to manage multiple things and be able to move quickly but efficiently

EDUCATION / COURSES

Bachelor of Science, Computer Science and Computer Engineering
Clarkson University

📅 August 2017 – Present 📍 Potsdam, NY

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.

SKILLS

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