Samuel Maphey

Computer Engineer   315-955-5291   sammaphey@yahoo.com   150 Ward Street Watertown, NY 13601

Work Experience

Software Development (Intern): NASA Glenn Research Center, Cleveland Ohio (2017)

- NASA Glenn's Materials division has been attempting to implement a digital culture for many years following the industry trend towards using data management systems to produce products more efficiently. I developed a package written in Python to facilitate the use of these data management systems. This included designing a user interface to export information into specific and unique file types, along with an API to allow for importing resultant data. Resulted in an increased use of Glenn's data infrastructure by materials engineers along with references at 1 conference.

Web Development (Intern): NASA Glenn Research Center, Cleveland Ohio (Spring-Summer 2017)

- NASA Glenn's web infrastructure is based on outdated and proprietary technologies that no longer fits the needs of NASA. I worked on a team that began developing web applications using the MEAN stack to help NASA Glenn leverage more modern web development standards. This included designing multiple applications to display the advantages of a new framework over the old and outdated one. In addition, we implemented the use of an Agile development method to quickly display the product to our stakeholders. Resulted in a presentation to the Chief Information Officer and the use of more relevant web development techniques at NASA Glenn.

Education

B.S in Computer Engineering: Clarkson University (Spring 2019) GPA - Not yet attended

A.S in Computer Science: Jefferson Community College (Fall 2015) GPA - 3.15

Volunteer Experience

Mentor

- Tutored students from local elementary and middle schools on how to build robots for the FIRST Lego League competition at Clarkson University
- Judged the final competition at Clarkson University and rated the teams based on their programming knowledge and ingenuity
- Mentored students at Fairview Park Library in North Olmsted, Ohio on challenges tasked to them by NASA engineers and scientists

Volunteer

- Helped with planning and logistics of designing and implementing a Space elevator challenge for children in middle-high school at NASA Glenn's Young Astronaut Day
- Engineering and Computer Science volunteer for Super Science Saturday community event

Honors/ Leadership Positions

- Dean's List, GPA 3.57. (Fall 2015)
- President's List, GPA 3.84. (Spring 2016)
- Recipient Clarkson Leadership Scholarship. (May 2016)

Software Skills

- Experience developing software using agile methodology. Involved the use of Git as version control system and JIRA as project management tool
- Worked with Java to create data storing types such as stacks, queues and trees
- Experience developing web-applications using angular and bootstrap frameworks to create an interactive single page applications
- Experience developing Python packages using a model view controller approach to design a user interface