

Samuel Maphey

Computer Engineer

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Work Experience

Internship: NASA Glenn Research Center, Cleveland Ohio (Fall 2016 - Spring 2017)

- Constructed data management tools for use in NASA Glenn's materials information management system. Involved building a graphical user interface through Jupyter Notebook along with an API for use in a materials engineers workflow. Resulting in the publishing of a technical memorandum along with references at 1 conference.
- Development of a web-application using Angular UI, using Agile as the development method. Resulting in a final presentation to NASA Glenn's Chief Information Officer regarding the aspects of in house web development.

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 - 3.12

A.S in Mathematics: Jefferson Community College (Spring 2017) GPA - 3.12

Volunteer Experience

Mentor

- Tutored students from local elementary and middle schools build robots for the FIRST Lego League competition at Clarkson University
- Judged the final competition and Clarkson 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. (Fall 2015)
- Volunteer help for Spaghetti Bridge competition at Jefferson Community College

Honors/ Leadership Positions

- National Honor Society Member. (2012 - 2014)
- 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 our version control system
- Worked with Java to create data storing types such as stacks, queues and trees
- Development of application using Python and Jupyter notebook to allow navigation of a database along with exportation of some database contents
- Experience developing web-applications using angular and bootstrap frameworks to create an interactive site to facilitate an awards nomination process