Samuel Maphey

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# EXPERIENCE

***Software Engineer,* Lawrence Livermore National Laboratories,** Livermore, California **June 2019 – Present**

* Designed, implemented, and deployed a full stack web application utilizing Angular, Fast API, Marklogic, Docker, and Gitlab CI
* Technical lead for the project and major contributor since the project’s inception.
* Designed and developed numerous other APIs for use in laboratory work utilizing Flask, Fast API, and Docker

***Full Stack Intern,* Lawrence Livermore National Laboratories,** Livermore, California. **June 2018 – June 2019**

* Lead developer on a full stack application that used Angular, Node.js, and Marklogic
* Aided laboratory scientists in searching and curating scientific testing data
* Final presentation that displayed the power of inputting scientific data into a database and showing the strength of search that Marklogic provides

***Web Application Development (Remote),* Air Force Research Lab,** Dayton, Ohio **September 2017 – May 2018**

* Integrating software previously developed through NASA with AFRL’s HyperThought™ project
* Assist in the design and implementation of the HyperThought™ project
* Write unit tests through Selenium to ensure the projects UI meets with planned functionality

***MEAN Stack Web Development Team Lead,* NASA Glenn Research Center*,*** Cleveland, Ohio **June 2017 – August 2017**

* Distributing and assigning tasks to new interns on projects
* Developed a highly capable and robust backend that enabled the retrieval and storage of data from many different applications
* Resulted in: the starting and continued development of three single page web applications that use the MEAN stack, presentation at AIAA SciTech conference, and the aforementioned internship

# EDUCATION

**Clarkson University,** Potsdam, NY (3.7/4.00) **May 2019**

*Bachelor of Science, Computer Science*

**Jefferson Community College,** Watertown, NY (3.15/4.00) **May 2016**

*Associates of Science, Computer Science*

**Jefferson Community College,** Watertown, NY (3.15/4.00) **December 2017**

*Associates of Science, Mathematics*

# RELEVANT SKILLS

## Languages and Libraries

* Python, TypeScript, JavaScript, CSS, Bootstrap, HTML, Angular Material UI
* Jasmine, Selenium, PyTest
* MATLAB, C++, Java, Assembly

## Frameworks

* MEAN (MongoDB, ExpressJS, Angular 2, NodeJS), Ionic, Marklogic, Fast API

## Other (design patterns, development practices, etc.)

* MVC, SDL, RESTful API design
* Version Control Systems and Workflows
* Docker, Gitlab CI

# VOLUNTEER/LEADERSHIP EXPERIENCE

## NASA

* Intern Team Lead **June 2017**
* Young Astronaut Day (Vol.) **November 2016**
* Space Apps Challenge (Vol.) **April 2017**
* Big Data Meet Up Group (Presenter) **April 2017**

## Clarkson University

* President’s List (GPA 4.0) **December 2017**
* Leadership Scholarship **April 2016**

## Jefferson Community College

* President’s List (GPA 3.84) **May 2016**
* Dean’s List (GPA 3.57) **December 2015**