

# 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**