

Emma N. Fass

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Education

University of Virginia, School of Engineering and Applied Science Charlottesville, VA
B.S., Major: Computer Science / Minor: Engineering Business (Overall GPA: 3.5) Expected: May 2018

Relevant Coursework: Algorithms, Program and Data Representation, Design and Implementation of Software for the Web, Software Development Techniques, Human Computer Interfaces

Technical Competencies

Java, HTML, CSS, JavaScript, C++, C, Python, Django, Bootstrap, Firebase, Git, Adobe Photoshop and InDesign

Technical Projects

Center for Automata Processing, Ambassador August 2016 - Present

- Work with the Automata Processor, the first successful hardware implementation of a non-deterministic finite automata computing architecture, to develop a technique to efficiently analyze data for terrain detection
- Serve as a liaison between the computing community and non-technical faculty members to find appropriate uses of the technology within the University community

Personal Website July 2016

- Created a website to demonstrate knowledge of web design as well as particular frameworks such as AngularJS and Bootstrap

Internship and Summer Experience

Tembo Education, Intern October 2016 - Present

- Work remotely to help build out a web platform that was launched in Nigeria in November
- Design administrative site components such as functionality to send mass SMS messages to users
- Utilizing Python and Django to develop within the team's environment

Liquid Thought, Intern July 2016 - August 2016

- Participated in an intensive summer study abroad program for front-end web development in Cape Town, South Africa that included an internship with a local start-up company
- Collaborated with a diverse team to develop a minimal viable product for a multiplatform system in 4 weeks that included both web and mobile components
- Used HTML, CSS, JS, and Bootstrap as well as Firebase for storing user data and authenticating users

UVA Data Analytics Research, Assistant May 2016 - June 2016

- Aided a PhD student by performing feature extraction from audio files
- Used WEKA software to determine which classifiers produced results with less than 10% error
- Collected additional audio files by processing online videos to expand the data set

Virginia Sea Grant, Technical Writing Intern June 2015 - August 2015

- Crafted multiple forms of media to convey scientific information to non-scientists
- Ensured the department met its goal of publishing two articles a week by writing over half of the content published during the ten-week internship including narratives, researcher biographies, and research summaries
- Conducted both in-person and phone interviews with marine science researchers, scientific writers, and interns

Leadership and Extracurricular Activities

International Awareness Project, Member January 2016 - Present

- Collaborate with two teammates in Engineering Teamwork & Leadership in Context to identify and address international awareness and global diversity within the University of Virginia
- Conducted a formal presentation and wrote a detailed executive summary for faculty members

University of Virginia Riding Team, Treasurer May 2015 - Present

- Responsible for 80 person team budget