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 (GPA: 3.6)   Expected: May 2018
Relevant Coursework: Algorithms, Programming and Data Representation, Computer Architecture, Design and Implementation of Software for the Web, Human Computer Interfaces, Databases

Technical Competencies

Python, Java, C++, Ruby, JS, HTML, CSS, Django, Angular, Nodejs, Bash, Git, Adobe Illustrator

Technical Projects

Personal Website   June 2017 - Present
- Created a website to experiment with new designs and frameworks like Materialize

Lokahi, *Team Member*   January 2017 - May 2017
- Created a web application with teammates that allows users to crowdsource information about investment opportunities and collaborate with other potential investors.
- Followed a requirements document to ensure users can create groups, send messages, encrypt their messages, create reports about investment opportunities, and perform searches by keyword.
- Used Django framework which provides a model-view-template architectural pattern and styled with CSS.

Center for Automata Processing, *Ambassador*   August 2016 - May 2017
- Worked with a group of graduate students and ambassadors to create a machine learning algorithm to detect types of terrain based on data collected by motion sensors.
- Served as a liaison to the university Kinesiology faculty members to find new uses of the automata processor, a hardware implementation of a non-deterministic finite automata computing architecture.

Internship Experience

Verisign, Reston, Virginia - *Software Engineer*   May 2017 - August 2017
- Developed a utility in Ruby to discover the state of engineering components and compare to a desired state.
- Used and contributed to 2 open source frameworks and wrote a Ruby gem to provide custom tests.
- Built a user interface with Angular and Node.js to provide a visualization of the assertions.
- Implemented a Linux command line tool in Python to compare Ansible configs across environments.
- Worked in an Agile environment, writing stories, participating in retrospectives, demo-ing work regularly.

Tembo Education, Tampa, Florida - *Software Engineer (Remote)*   October 2016 - January 2017
- Joined the startup to aid the team in achieving deadlines to expand their product, SMS text messages with fun educational activities for parents to do with their children.
- Designed a web component that allows admin to send mass SMS text messages to users using Django, allowing the team to make a deadline for a launch in Nigeria.
- Aided the front-end team in organizing web content and designing new components.

Liquid Thought, Cape Town, South Africa - *Front End Engineer*   July 2016 - August 2016
- Participated in an intensive summer study abroad program for front-end web development in South Africa that included a month-long internship with a local start-up company.
- Collaborated with a diverse team to create a minimal viable product within 4 weeks.
- Used HTML, Angular, Firebase, CSS and Bootstrap to create the web-component of the product.

UVA Data Analytics Research, Charlottesville, Virginia - *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.