Casey Haber www.cahaber.me

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Experience

Two Six Labs - Data Visualization Scientist / Research Engineer
Spring 2018 - Summer 2019

Designer, full-stack engineer, and visualization specialist on government R&D programs as part of the analytics unit. I have been the lead architect responsible for building the Mining and Understanding Software Enclaves portal, and thus have worked with our client and performers to establish a custom experience for conducting and distributing computationally intense research.

Beyond the management of the MUSE portal, I am also a participant on the project, defining my own research on the use of visualization and machine learning in software. My process includes: designing in Sketch, engineering a backend with Express, Django or Flask, and developing a prototype with React and D3. I then develop the specific experience needed to drive decisions and create impact. I also support our machine learning team in generating scientific visualizations for papers, blog posts and other programs. See a pre-published version of my paper on my website.

Enterprise Systems & Applications @ USF - Salesforce Developer
Fall 2016, Summer 2017

Full-stack development of USF's salesforce infrastructure. I built out features requested by faculty, fixed bugs and implemented javascript validation on all web forms. Beyond that, I wrote small scripts for our department with the intention to speed up productivity for everyday tasks, designed wireframes and prototypes, and tested/fixed usability bugs on the site.

CAMUS GROUP - Data Visualization Expert/Curriculum Developer
Spring 2016 - Summer 2016

Data storytelling consulting firm based out of San Francisco. Clients include Trifacta, Oblong, Diyotta and Ernst & Young. I served as the in-house subject matter expert and curriculumn directory for the development of a online Data Visualization 101 course. This course was taught to thousands of EY analysts worldwide as part of a EY global contract. My other duties included the creation of interactive demos in D3 to convey the impact visualization has in driving business decisions.

Specialties

Data Visualization
Full-Stack Web Development
Prototyping / Design
Usability Research

Technical Skills

Current
D3.js // React // Javascript
NPM // Node // Webpack
Express // Docker // Git
Python // Pandas // Django
Matplotlib // Altair // Vega
Sketch // Illustrator // CSS
Postgres // SQL
Elasticsearch // Kibana

Past
Java // Maven // jQuery
ARM // C // Apex
jQuery // Bootstrap
Processing // P5.js

Education

University of San Francisco
B.S. in Computer Science
Minor in Design
Graduated May 2018

UNIVERSITY OF SAN FRANCISCO - Research Assistant
Fall 2016 & Summer 2017

Professor Sophie Engle - I was a main contributor on a paper titled Do Defaults Matter? Evaluating the Effect of Defaults on User Preference for Multi-Class Scatterplots. The paper was accepted as a short paper at VINCI '17. I was flown out by USF to present the paper and discuss the impact and possibilities of our findings. See vgl.cs.usfca.edu for details.
Professor Candice Harrison - I worked on visually mapping out the findings of USF's director of African American studies research. The findings and visuals will be published in her book titled Democratizing the Market: Place, Power & Politics in Early Philadelphia.

UNIVERSITY OF SAN FRANCISCO - Teaching Assistant
Spring 2017, Fall 2017 - Spring 2018

CS360 - Debugging and tutoring for 30+ students taking interactive data visualization. Course outcomes include data analysis through exploration using d3.js, tableau and minimal R.
CS315 - Tutoring, debugging, and interactive grading for ARM v7 assembly programming, C emulation and full CPU implementation. Driving principles of this course include code orgranization, quality and general technique.

Confs./Workshops

VINCI 2017
Do Defaults Matter?
Short paper presentation

Visualizing Data Workshop
Andy Kirk
2-Day Visualization Course

React + D3v4.0
Swizec Teller & Freddy Rangel
All day react + visualization