

# Casey Haber

www.cahaber.me

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## Experience

**Two Six Labs - Data Visualization Scientist / Research Engineer**  
Spring 2018 - Present

Designer, full-stack engineer, and visualization specialist on government R&D programs as part of a 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.

**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 for the development of a online Data Visualization 101 course. This course was taught to hundreds of EY analysts worldwide as part of EY global. 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  
Creative Coding

## 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](http://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 organization, 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