Corey Shott

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TECHNICAL SKILLS

- **Strong:** Python, Flask, Jinja2, SQLAlchemy, JavaScript, jQuery, AJAX, D3.js, SQL, PostgreSQL, SQLite, HTML5, CSS3, Bootstrap, Git, Heroku, Jupityr, PyUnit
- **Exposure:** Docker, AngularJS, Django

PROFESSIONAL EXPERIENCE

Software Engineer, Volunteer | Women Who Code, Silicon Valley | Redwood City, CA 2015 - Present

- Engineered a Python Flask platform for developers to connect around shared goals and project ideas.
- Utilized jQuery, HTML5, and CSS3 to design the UI/UX, and implemented form validation using Bootstrap.
- Followed scrum agile development methodology through bi-weekly standups and managing the Git workflow.

Project Manager | Chambers for Innovation & Clean Energy | San Francisco, CA 2014 - 2015

- Increased network members by 300% of local chambers of commerce dedicated to advancing clean energy.

Senior Climate & Energy Policy Representative | National Wildlife Federation | Washington, DC 2007 - 2013

- Constructed centralized information sharing system within 20+ interest groups, saving campaign ~40k yearly.
- Led project of 100+ team members to successful passage of federal climate legislation in the US House.
- Co-wrote scientific climate report that generated 100+ press opportunities and visibility of the climate crisis.

RECENT PROJECTS

Software Engineer | Congressional Money Trail | live | code 2016

Data visualization tool for constituents to see campaign contributions to their federally elected Members of Congress.

- Built RESTful Python and Flask backend to deliver contribution data based on user specified parameters.
- Optimized Python Flask processing of member data by 99% through storing JSON objects in PostgreSQL DB.
- Wrote multiple custom parsing functions in Python to organize 4gb+ of contribution data, and calculate total donation amounts over the last 10 years, as well as listing top donors all 535 members of congress.
- Architected PostgreSQL DB to store 4+ million rows across 6 tables, using SQLAlchemy to establish one-to-one, and many-to-many relationships among legislators, contributions, and contributors.
- Developed raw SQL queries and indexed tables to reducing JOIN speeds of tables from 2 min to 30 seconds.
- Visualized donations using D3.js, implementing custom sizing of the tree nodes based on contribution ratios.
- Tested Sunlight Foundation API call, data processing functions, and Flask server routes with Unit and Integration tests developed using PyUnit.

Software Engineer | Michelin WordViz | code 2016

Service for foodies to see visualizations of the most common words found in Yelp reviews of 3 star Michelin restaurants.

- Utilized Beautiful Soup to scrape 25,000+ Yelp reviews of target restaurants storing them in PostgreSQL DB.
- Assembled 13 libraries of 17,000+ entries each to store and organize words, by using NLTK to tag review words based on parts of speech (pronouns, prepositions, etc.) from text analysis of restaurant reviews.
- Created word bubbles using D3.js to display word frequency contained within different starred reviews.

Software Engineer | InsureCare | code 2015

Integrate hackathon prize winner & top 5 overall tool to help people choose insurance providers based on doctor ratings.

- Designed backend data processing functions to call BetterDoctor API and filter entries on 1+ million doctors.
- Implemented dynamic D3.js visualizations based to show ratings of doctors covered by different insurances.

EDUCATION

Hackbright Academy, *Software Engineering* 2015
John Hopkins University, *M.S. Environmental Science & Policy* 2012
The George Washington University, *B.A. Political Science (Magna Cum Laude)* 2004