ALI SPITTEL

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RELEVANT EXPERIENCE

0ptimus Consulting, DevOps Engineer   **(6.15-Present)**
- Led development on the company's client facing data presentation application utilizing Django, PostgreSQL, D3.js, and data from multiple APIs.
- Lead developer on Django REST Framework, React, and Redux application that creates balanced stratified samples from datasets.
- Contributing engineer on multiple data analysis applications that process polling, TV viewership, and voter modelling data.
- Taught clients how to use applications, and collaborated with them to create customized platforms.
- Promoted from data science intern in December of 2015.

Hamilton College, Computer Science Teaching Assistant   **(9.14-12.14)**
- Helped students with projects in Python and C++ computer languages.

EDUCATION

Bachelor of Arts Hamilton College // Government (2016)
- Participant in 2015 Spring Washington, D.C. program. Courses include Advanced Statistics, Regression, Python, Calculus, and C++.

SKILLS

- **Python** – projects include recreating the game Flappy Bird and writing full stack Django applications. Experience with Pandas, Django, Django REST Framework.
- **JavaScript** – experienced with both front and backend scripting. Projects include a D3.js graph editor in React with a Meteor backend, creating dashboard style graphing frontends, and writing a file uploader for large CSV files with React and Redux.
- **C++** – recreated the Huffman encoding project and wrote a program that writes text in a similar manner to any inputted author.
- Have also created projects with Java, Ruby on Rails, SASS, Gulp, and Jekyll.

RESEARCH

Senior Thesis: Examining Political Gender Biases Through Twitter Data
Collected a database of over 600,000 Tweets and performed sentiment and other statistical analysis on it using Python. Created an application to display the data in addition to the written analysis.

Independent Study: The Need for Improved Computer Science Education in the American K-12 System
Taught and observed multiple computer science classes for students of differing ages. Developed a curriculum and completed a written analysis on how to make learning how to code more accessible.

COMMUNITY INVOLVEMENT

Teacher, Hear Me Code • **Mentor,** Django Girls • **Mentor,** Madison DECA Hackathon • **Moderator,** General Assembly Women in Tech Breakfast • **Guest Lecturer,** General Assembly Data Science Immersive • **Organizer and Teacher,** Hour of Code at Clinton Middle School • **Participant** Google Code Jam and Code Jam for Women.