

# ZoëFarmer

Data Scientist

## About

345 South 40th Street  
Boulder, Colorado,  
80305

(719) 233 3514  
dataleek.io

twitter/TheDataLeek  
zoe@dataleek.io  
github/thedataleek

## Programming Expert

Python, LaTeX  
Intermediate

Javascript, SQL, R,  
Go, Bash, Regex,  
HTML, CSS

Novice  
Scala

## Tools

### Mathematics

Probability/Statistics

### Frameworks

Spark, Numpy, Scipy,  
Flask, NodeJS, CI  
Tooling

### Visualization

D3, Graphviz,  
NetworkX, Matplotlib

### Infrastructure

Nginx, Apache,  
Docker, LAMP

## Education

B.S. in Applied Math  
CompSci Minor  
C.U. Boulder  
May 2018

## Experience

- 01/18 - Now **Talus Analytics, Boulder, Colorado** Data Scientist / Analyst / Developer  
*Talus Analytics' data analyst and lead developer focused on integrating data analysis, visualization, and design. Responsible for the start-to-finish full-stack development of several analytics dashboards with emphasis on public health and global security. Created and presented at local meetups an extensible D3 framework allowing for fast development of intricate visuals ([dataleek.io/index.php/2018/04/29/reusable-charting-with-d3](http://dataleek.io/index.php/2018/04/29/reusable-charting-with-d3)). Please see [dbe.talusanalytics.com](http://dbe.talusanalytics.com) for an example of my work.*
- 03/16 - Now **Nidhogg Consulting, Boulder, Colorado** Data Scientist / Software Developer  
*Co-founded Nidhogg Consulting, a consulting security firm as Chief Data Scientist and Software Engineer. Responsibilities include project management, full stack web development, data science projects, and job acquisition.*
- 09/15 - 05/17 **University of Colorado, Boulder** Applied Math Research Assistant  
*Used machine learning models on lab data to predict data quality. Developed and implemented a massively parallel simulation framework to analyze behavior of soliton gasses in one-dimensional systems. Presented at SIAM 2016 and SIAM 2017.*
- 05/16 - 08/16 **Khan Academy, Mountain View, California** Data Science Intern  
*Built a probabilistic and Markov-chain network infection model for the interview ([github.com/thedataleek/khan-interview](https://github.com/thedataleek/khan-interview)). Developed new features, enhanced metrics, and maintained [khanacademy.org](http://khanacademy.org). Used investigative analytics to research SAT test scores. Developed a generalized learning model to assist with student growth and projection estimates for the SAT practice tool.*
- 06/15 - 08/15 **Shutterstock, Denver, Colorado** Data Scientist Intern  
*Created a Apache Spark application to handle large scale ETL tasks on top of their Hadoop platform, as well as deployed several big data solutions.*
- 04/14 - 09/14 **SpotXchange, Westminster, Colorado** Data Scientist Intern  
*Developed an automatic Tableau Server reporting tool based on the semi-public API. Analyzed time-series data in an effort to identify similarities. Created a probabilistic model to analyze single-threaded schedule optimizations.*
- 05/13 - 08/13 **MITRE, Colorado Springs, Colorado** Data Visualization Intern  
*Created network data visualizations based on packet transfer data using common visualization technologies. Implemented encryption section for 2013 CTF.*
- 08/12 - 05/13 **Snow and Ice Data Center, Boulder, Colorado** Data Management Assistant  
*Large scale ETL involving terabytes of research data. Involved application of optimized Python and bash scripting.*

## Projects

**Boulder Python Meetup Coordinator**  
**Latex Forum Moderator**  
**Enforce**  
**Black Arrow**  
**Khan Interview**

[boulderpython.org](http://boulderpython.org)  
[reddit.com/r/LaTeX](https://reddit.com/r/LaTeX)  
[github.com/RussBaz/enforce](https://github.com/RussBaz/enforce)  
[github.com/thedataleek/black-arrow](https://github.com/thedataleek/black-arrow)  
[github.com/thedataleek/khan-interview](https://github.com/thedataleek/khan-interview)