

# ZoëFarmer

Data Scientist


## Contact


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## Programming

### Expert

Python

### Intermediate

Javascript, SQL, Bash,  
Regex, HTML, CSS,  
LaTeX

### Novice

Scala, R, Go

## Tools

### Mathematics

Machine Learning,  
Regression,  
Probability, Statistics

### Frameworks

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

### Visualization

D3, Graphviz,  
NetworkX, Matplotlib

### Infrastructure

Nginx, Apache,  
Docker, LAMP

## Education

Applied Math B.S.

CompSci Minor

C.U. Boulder


May 2018

## Avocations

 PyColorado Board

 Meetup Coordinator

 Personal Blog

 Black Arrow

## Experience

- 04/19 - Now **Red Dot Storage, Louisville, Colorado** Data Scientist  
*Initial primary objective to model and automate outdated revenue management platform with later responsibilities to answer business critical questions & concerns. Emphasis is placed on business-oriented research with a narrative focus. Research has included: market analysis, geospatial modeling, machine learning, regression analysis, performance optimization, and statistical modeling.*
- 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.*
- 01/18 - 4/19 **Talus Analytics, Boulder, Colorado** Data Scientist / Analyst / Developer  
*Focused on integrating data analysis, visualization, and design as Talus Analytics' data analyst and lead developer. 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.*
- 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 Scientist 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.*