

ZOE FARMER

Data Scientist / Machine Learning Engineer

Data Scientist / Machine Learning Engineer 04/21–Current
Square (San Francisco, CA)

Built, tuned, and deployed machine learning models to support high-value stakeholder initiatives such as product value and anomaly detection.

Established a mature data ecosystem to support modeling work.

Supported a large product team with a wide array of data science and modeling ad-hoc requests.

Managed contracted roles to provide additional team bandwidth.

Data Scientist 04/19–04/21
Red Dot Storage (Louisville, CO)

Built, tuned, and deployed key financial models to optimize the core revenue management platform.

Supplied leadership with a narrative-driven approach to critical insights into customers, markets, and strategy via statistical modeling, analytics, data-driven validation, and machine learning.

Data Scientist / Data Analyst / Lead Developer 01/18–04/19
Talus Analytics (Boulder, CO)

Focused on integrating data analysis, visualization, and design

Responsible for the full-stack development & technical direction of several analytics dashboards with emphasis on public health and global security.

Data Scientist / Software Engineer 03/16–01/21
Nidhogg Consulting (Boulder, CO)

Co-founded as Chief Data Scientist and lead Software Engineer.

Responsibilities included project management, full stack web development, data science projects, and new job acquisition.

Applied Math Research Assistant 09/15–05/17
University of Colorado, Boulder (Boulder, CO)

Used machine learning models on gathered experimental lab data to predict data quality.

Developed and implemented a massively parallel simulation framework to analyze the behavior of soliton gasses in one-dimension systems.


Presented at the 2016 & 2017 Society for Industrial and Applied Mathematics (SIAM) student conferences


Data Management Assistant 08/12–05/13
National Snow and Ice Data Center (Boulder, CO)


Large scale ETL tasks involving terabytes of research data.

Involved heavy applications of optimized Python data ingestion along with bash scripting.

Contact

 Denver, Colorado

 (719) 233 3514

 zoe@dataleek.io

 github/thedataleek

</> Programming

Python

SQL

Javascript / HTML / CSS

Regular Expressions

Bash / Shell Scripting

Tools

Machine Learning,
Classification, Regression,
Anomaly Detection, Natural
Language Processing (NLP),
Large-Language Models
(LLMs), Retrieval-Augmented
Generation (RAG)

Amazon Web Services (AWS),
Google Cloud Platform (GCP),
Databricks, Prefect, Snowflake

Pandas, Numpy, Scipy, NLTK,
Flask, Asyncio, Jupyter, Git

Matplotlib, Holoviews, D3,
Graphviz, Looker, PowerBI

CI/CD, Agile Development,
Unix, Docker

Education

Applied Math B.S

Computer Science Minor

University of Colorado

Boulder

May, 2018

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Data Scientist Internship

Khan Academy

Built a probabilistic and Markov-chain network infection model for the interview (github.com/thedataleek/kahn-interview). Developed new features, enhanced metrics, and maintained 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 preparation tool.

2016

Projects

- PyColorado 2019 Board
- Boulder Python 2016-2019
- Black Arrow CLI Tool
- Discord Chat Plugins
- Hackathon Winner SQL/GPT4 D3 Framework

Data Scientist Internship

Shutterstock

Created an Apache Spark application to handle large scale ETL tasks on top of Shutterstock's Hadoop platform, as well as deployed and developed in-house big-data solutions

2015

Hobbies

Sewing
Dungeons & Dragons
Martial Arts
Video Games

Data Scientist Internship

SpotXChange

Developed an automatic Tableau Server reporting tool based on the semi-public API. Analyzed time-series data in an effort to identify similarities and overlapping data. Created a probabilistic model to analyze potential single-threaded scheduler optimizations

2014

Data Visualization Internship

MITRE

Created network data visualizations based on packet transfer data using common visualization libraries and tools. Responsible for challenges and solution implementations for the 2013 security Capture the Flag event.

2013

References Available Upon Request