DREW FUSTIN

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📍 Chicago, IL

PhD '12, University of Chicago
Particle Astrophysics / Dark Matter

Data leader with over a decade of startup experience building data organizations and developing machine learning products: infrastructure + feature engineering + model training + service deployment. Looking to build something great.

SELECTED EXPERIENCE

Senior Director of Data Science
Principal Machine Learning Scientist
soona   Jan 2022 - present

- Mgmt: founded data analytics, data science, data engineering, computer vision, and machine learning engineering (8 directs)
- Owned decisions on personnel, roadmap, technology, and related
- Redefined company-wide KPIs to optimize decision-making
- Automated image processing by training various neural nets for transformations and deploying as a service, saving ~$4m/yr in margin
- Worked with diffusion models to explore generative product images, realistic human transformations, and image optimizations
- Built custom accounting system to calculate revenue recognition
- Centralized data sources by building ELT deployment from scratch to produce a data lake, warehouse, and marts for analytics consumption
- Wrote infrastructure-as-code to manage deployment of resources

Director of Data Science
OPENLANE | KAR Global | DRIVIN   Jul 2019 - Dec 2021

- Mgmt: computer vision, machine learning engineering (10 directs)
- Revamped interview process, career leveling, salary bands
- Built vehicle repair recs engine worth ~$5m/yr, sold to Carvana
- Managed development and deployment of image background removal service and content quality scoring library

Founder / Data Consultant
Sage Array (independent)   Jan 2018 - present

- Built data analytics process for retail and insurance startups
- Wrote structured report generation UI for a medical imaging startup

Lead Data Scientist
SpotHero   Aug 2015 - Nov 2017

- Mgmt: founded data science, data engineering (2 directs)
- Created ETL pipelines, data warehouse, and analytics platform
- Built marketing attribution and LTV model for ~$1m/mo spend
- Modeled elasticity for dynamic pricing and inventory optimization

Insights Analyst
Grubhub   Mar 2013 - Aug 2014

- Co-created data journalism program (3x YoY brand mentions)
- Developed an algorithm to optimize delivery boundaries

SPECIALTIES

Greenfield data science and engineering

Creating impactful data organizations

Data product management

Building data products end-to-end

ML / CV / AI service deployment

Data pipelines, warehousing, ELT

MLOps and infra-as-code

Computer vision

Probabilistic programming

Fighting for the good of my team

Networking in the tech community

Googling things I don't understand

Mixing a really good cocktail

TOOLS OF CHOICE

Python: PyTorch, pandas, scikit-learn, PyMC3, Dask, similar

Tooling: dbt, Jupyter, Airflow, Plotly, Looker, Airbyte, Segment

Deploy: Docker, FastAPI, Kubeflow

DBMS: SQL, Redshift, Snowflake

Cloud: AWS

Infra: Terraform

CI/CD: CircleCI, Jenkins

Project: Agile, Kanban, Jira

WHAT IS IMPORTANT TO ME

Opportunity to help build a great data science/engineering organization

Engaging problems to work on that make a real impact on the business

Nurturing environment for learning, experimentation, and ingenuity

A culture committed to diversity and eliminating inequality in engineering

Work-life balance to spend time with my wife, three children, and dog