

DREW FUSTIN


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PhD '12
University of Chicago
Particle Astrophysics / Dark Matter

Data leader and machine learning generalist with over a decade of startup experience building data organizations and developing machine learning products, with rare experience as both a manager and individual contributor. Looking to build something great.


SELECTED EXPERIENCE

 **Senior Director of Data Science**
Principal Machine Learning Scientist Jan 2022 - Mar 2024
soona

- mgmt: founded data analytics, data science, data engineering, machine learning engineering, and computer vision (8 directs)
- Owned decisions on personnel, roadmap, technology, budget, and related
- Designed cloud architecture and wrote infrastructure-as-code to manage deployment of all data resources within secure networks
- Automated live image post-processing in platform by training various neural nets for transformations (e.g. white balancing) and deploying as a REST API
- Leveraged diffusion models for in- and out-painting around customer products within images to augment product details and backgrounds
- Built custom accounting system to process revenue recognition
- Centralized data sources in ELT pipelines to provide single-source-of-truth data definitions for analytics consumption
- Redefined company-wide KPIs to optimize decision-making
- Created data dashboards displaying these KPIs for each department

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

- mgmt: computer vision and machine learning engineering (10 directs)
- Revamped interview process, career leveling, salary bands, and job definitions
- Built vehicle repair optimization / recommendation engine worth ~\$5m/yr in added in-house repair work sold (purchased by Carvana)
- Managed development and deployment of image segmentation service for PII and background removal and mobile client-side content quality scoring library
- Created internal suite of computer vision demos to showcase development progress and image processing capabilities to business stakeholders

 **Founder / Independent Consultant** Jan 2018 - Jul 2019
Sage Array

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

 **Lead Data Scientist** Aug 2015 - Nov 2017
SpotHero

- mgmt: founded data science and data engineering (2 directs)
- Created ETL pipelines, data warehouse, and analytics platform
- Built marketing attribution and LTV model to prioritize ~\$1m/mo spend
- Modeled elasticity for dynamic pricing algorithm and inventory optimization
- Forecasted rental activity and churn probability for automated intervention

 **Insights Analyst** Mar 2013 - Aug 2014
Grubhub

- Co-created data journalism program (3x YoY brand mentions)
- Produced white papers surveying the effects of delivery fees on revenue
- Developed an isochrone algorithm to optimize delivery boundaries

SPECIALTIES

0-to-1 data science/engineering end-to-end:

infra ► models ► inference ► service

Scaling impactful data organizations

Data and engineering product management

Data pipelines, warehousing, ELT

Computer vision and image processing

ML / CV / AI inference and service deployment

MLOps and infrastructure-as-code

Probabilistic programming, Bayesian modeling

Democratizing data analytics

Managing remote development teams

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, FastAPI, Pydantic, similar

Tooling: dbt, Airflow, H2O.ai, Looker, Jupyter, Plotly/Dash, d3.js, Airbyte, Segment

Deploy: Docker, SageMaker, Kubeflow

DBMS: SQL, Redshift, Snowflake, MongoDB

IaC: Terraform, CloudFormation

CI/CD: CircleCI, Jenkins, GitHub Actions

Cloud: AWS, GCP

Upcoming: learning Rust and PyO3

WHAT IS IMPORTANT TO ME

Opportunity to help build a difference-making, cutting-edge machine learning organization

Engaging problems to work on that make a material 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 meaningful time with my wife + three children + dog