

# Dene Farrell

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Something Else.

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I like working with engineers, data scientists, and stakeholders across a large variety of data use cases to find solutions that meet business needs in a technically rigorous approach that scales and provides immediate and future benefits.

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## Education

- 2008**                      **M.S., Systems Science**; State University of New York, Binghamton
- 2006**                      **B.S., Bioengineering**; State University of New York, Binghamton

## Experience

**Latch** - Senior Manager, Data Engineering  
New York, Sept 2019 – Present

- Managed a team of five including three data engineers, a data scientist, and a business analyst
- Delivered several cross-company microservices: Data Centralization and Governance, Data Ecosystem Management with Automated Analytics Job Support, Company Operational Notifications, CRM to ERP Integration, PII Anonymization, ML Pipeline Development and Deployment Framework
- Worked with a varied set of internal stakeholders while adapting to meet the data needs across Latch.

**Capital One** - Principal Data Engineer  
New York, May 2017 – Sept 2019

- Lead Card-on-file Detections: Successfully built and deployed a classification pipeline that identifies for all credit holders which merchants have stored their credentials on file.
- Re-architected a monolith ML application to microservices using AWS serverless services
- Implemented a comprehensive customer profile feature engineering pipeline to service a multi-armed bandit call schedule recommendation service with Python, Snowflake, and Kubernetes.

**Insight Data Science** - Data Engineering Fellow  
New York, Jan. 2017 – Mar. 2017

- Deployed Fleetingly, a taxi fleet analysis application for scalable sensing of geospatial patterns
- Implemented fleet performance analysis with live streaming and historical pattern visualizations.

**Sloan Kettering Institute** - Image Analysis Engineer  
New York, Dec. 2008 – Jan. 2017

- Developed image processing applications for understanding early Drosophila embryo development.
- Made advanced computational tools accessible to non-technical users with intuitive interfaces.
- Enhanced image processing capabilities in order to analyze previously unobtainable 4D data.
- Co-authored several publication in premiere journals such as Nature.

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## Side Project

**Gifthorse Inc** (gifthorse.shop) - Founder and Developer  
New York, June 2018 – Present

- Developed a fun and easy to use gift recommender service
- Django Web Backend, React Frontend, Scala Data Engineering and ML Backend
- Services implemented: product parsing and updating, basic frontend functionality, basic recommendation functionalities, authentication, CICD Deployments

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## Skills

### Programming Languages

**Python:** something about python.

**Bash:** something about bash.

**SQL:** something about SQL

**Scala:** something about Scala

**JavaScript, React:** something about JavaScript

Basic knowledge of **C, Java, D3**

### Data Engineering

AWS, Sagemaker, Kafka, Spark, EMR, DynamoDB, AWS Lambda, Flask, Django, ElasticSearch, Airflow, Luigi, Ansible, Jenkins, CircleCI, Snowflake, Docker, Kubernetes

### Machine Learning

Classification, Regression, Data Wrangling, Feature Engineering, Entity Resolution, Artificial Neural Networks, Unsupervised Learning Algorithms, K-Means Clustering, PCA

### Team Management

Roadmap Planning, Jira, Agile, Scrum, Kanban, Cross org collaboration strategies

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