

# Dene Farrell

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In love with data driven decision making and building the platforms that enable it.

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## 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 services: Data Centralization and Governance, Data Ecosystem Management with Automated Analytics, Company Operational Notifications, CRM to ERP Integration, PII Anonymization, ML Pipeline Development and Deployment Framework
- Worked with diverse stakeholders while constantly adapting to meet the data needs at 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 card holders which merchants have stored their credentials on file.
- Developed a general purpose data visualization tool for handling highly inter-related categorical variables at high volumes, high state variability, low documentation and low stability. Leveraged Spark and D3. Implemented on credit card transaction data.
- 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 Fleetinglly, a taxi fleet analysis application for scalable sensing of geospatial patterns
- Implemented fleet performance analysis with live streaming and historical pattern visualizations.
- Tech stack: Kafka, Hadoop, Spark Streaming, ElasticSearch, Kibana. [Python + Scala]

### **Sloan Kettering Institute** - Image Analysis Engineer

New York, Dec. 2008 – Jan. 2017

- Built 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.

## Education

2008

**M.S., Systems Science**; State University of New York, Binghamton

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## Side Projects

### Gifthorse Inc - 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:** 6 Years experience. I've built many products with python.

**Scala:** Completed Courses from EPFL in Functional Programming and Software Development with Scala. I have three years experience developing in Scala.

**JavaScript, React:** I've used JavaScript and React in my side project, Gifthorse.

**SQL:** Well versed in sql. I have built products that leverage RDS, Snowflake, and Spark SQL.

**Bash:** I use it lightly, but pretty consistently for convenience scripts, installation scripts, etc. e.g. [dots](#)

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, System Architecture and System Design, Looker

### Machine Learning

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

### Team Management

Roadmap Planning, Jira, Agile, Scrum, Kanban, Stakeholder Communication, Software Team Productivity Enhancements, Architecture Decision Records, Software and Data System Documentation Strategies

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