Dene Farrell

github | **linkedIn**

In love with data driven decisions and building the platforms that enable them.

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 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 a cross-org 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.
- 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.
- 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.

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

Skills

Programming Languages	**Python:** 6 Years experience. I'v built many products with python. I'm not married to it, but I can build fast and wide with it.
	Bash: I use it lightly, but pretty consistently for convenience scripts, installation scripts, etc. e.g. **dots**
	SQL: Well versed in sql. I have built products that leverage RDS, Snowflake, and Spark SQL.
	Scala: Completed EPFL Functional Program Courses in 2019 and I have been developing in production since 2019. I had already completed a comple projects in Scala prior to that as well.
	JavaScript, React: I've used JavaScript and React in my side project, Gifthorse.
	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
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, Stakeholder Communication