

# JUSTIN FLANNERY

## DATA SCIENCE ENGINEER

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## EDUCATION

**Bachelor of Arts – Int'l Studies**

**The University of Colorado**

Denver, CO | 2014

*Emphasis on Middle Eastern Affairs*

*Dean's List*

## SKILLS

### Python Development

SciPy (pandas, NumPy, etc.)

Object Oriented SQL (SQLAlchemy)

DAGs / Finite State Machines

### Big Data and Machine Learning

Spark / HDFS

scikit-learn

MLflow

### Visualization and Storytelling

Matplotlib / seaborn

Tableau / PowerBI

### Pipelines, CI/CD, and ETL

Jenkins / Airflow

APIs (REST / SOAP)

### Deployment and DevOps

AWS EC2 / ECS

Docker / Kubernetes

### Database Admin and Architecture

PostgreSQL / Redshift

MySQL

SQL Server

### Additional Languages

Ruby / Java / R

Bash / ZSH / PowerShell

## RELATED EXPERIENCE

### LIVONGO

**DATA SCIENTIST II | DENVER, CO | JUNE 2020 - PRESENT**

- Build and expand a production machine learning application (Contextual Multi Armed Bandit) to optimize the success of the Livongo member recruitment journey using personalization and the automation of marketing asset assignment.
- Design and implement data and machine learning pipelines using services and tools including Redshift, AWS S3, Spark, MLflow, Databricks Model Registry, Jenkins, and Docker.
- Develop and standardize internal Python modules and SDKs used by the Data Science team to interact with data warehouses, cloud compute and storage, external APIs, and machine learning infrastructure.

**BUSINESS INTELLIGENCE DEVELOPER | DENVER, CO | APRIL 2019 - JUNE 2020**

- Maintained, developed, and expanded reporting infrastructure to support external data ETL, production data transformation, client reporting delivery, and product engagement analytics for myStrength, a digital behavioral health application.
- Worked within the Engineering team to identify bugs and data inconsistencies, perform production database schema migrations, and expand analytic data capture.
- Post acquisition of myStrength, worked across Livongo Data Science and Engineering teams to assist with the integration of historical analytics and reporting.

### GRANICUS

**DATA MIGRATION SPECIALIST | DENVER, CO | SEPTEMBER 2018 - MARCH 2019**

- Managed the deployment and configuration of onsite database and application servers for incoming clients. Also served as remote database administrator, performing necessary database maintenance and upgrades for product updates.
- Oversaw complex end-to-end migrations and conversion of new customer source data into production application databases for seamless transition of new clients.
- Built internal ETL GUI tools using Python and T-SQL to further automate, standardize, and streamline the process of historical data migrations into the Land and Vitals application database.

### FAREHARBOR

**SENIOR BUSINESS INTELLIGENCE DEVELOPER | DENVER, CO | JUNE 2018 - AUGUST 2018**

- Led company initiative to develop an in-house ETL solution across all data sources (including MixPanel, Google Analytics, ZenDesk, Salesforce, and Stripe) and transition from third party provider.
- Built and maintained integrations facilitating the transfer and sync of data and events between crucial business software with Python and external REST APIs.

**DATA OPERATIONS ENGINEER | DENVER, CO | OCTOBER 2017 - JUNE 2018**

- Served as administrator to AWS Redshift data warehouse; maintaining data quality and freshness, building complex aggregate tables to support a team of analysts, and optimizing database performance.
- Architected and implemented Gainsight Customer Success Platform including defining and improving complex customer health scores and workflows across over 6,000 active accounts.

**REVENUE OPERATIONS ANALYST | DENVER, CO | DECEMBER 2016 - OCTOBER 2017**

- Performed analysis across multiple data sources and built reporting dashboards such as customer journey analysis, prospective lead performance analysis, and digital campaign analytics.
- Presented analysis and insights to internal stakeholders and large enterprise clients.