

Mike Dillion

CONTACT INFORMATION

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EMPLOYMENT

Noetica.ai

Lead Data Engineer

November 2023 — October 2024

- First hire dedicated to **Data Engineering** and DevOps efforts; Existing engineering staff focused on Product Engineering and Research and Development (AI/ML) efforts.
- Led recruiting and hiring efforts to expand **Data Team to six**.
- Maintained and iterated on patterns for shipping the **Data Product** that powered the SaaS product.
- Scaled and right-sized **AWS OpenSearch Domains** to serve SaaS product features.
- Architect of second-generation **Data Platform**.
- Data stack: **PostgreSQL**, **dbt**. In-house **Python** pipeline framework. **Kubernetes**, **AWS EKS**.
- Product stack: **Python**, **FastAPI**, **TypeScript**, **PostgreSQL**.

Extra Card (The Aligned Company dba Extra)

Manager, Data Engineering

September 2022 — June 2023

- Lead the **Data Engineering team** during a period of hyper-focus on advertising spend, **Risk Management**, and product expansion.
- Managed multiple projects with Jira. Ran team Sprint, grooming, planning, and retro sessions.
- Met with reports regularly for 1:1s and career development sessions.
- Collaborated with the team to construct Extra's **Data Engineering Career Framework**.
- Hands on support and collaboration with **Risk**, **Fraud**, and Business Intelligence teams.
- Full integration with platform event routing and Customer Data Platforms including: **Amplitude**, **RudderStack**, and **Segment**, and **Customer.io**.
- Data Products: **Risk and Fraud** datasets, BI models, Customer Credit Furnishing to **Credit Bureaus**, Customer Monthly Statements to platform.
- Data stack: **Snowflake**, **Kafka**, **Debezium**, **Prefect**, **dbt**, **Metabase**. **Python** and **JavaScript** projects.
- Product stack: **TypeScript**, **React Native**, **MySQL**, **Kubernetes**, **AWS**, **Digital Ocean**.

Bread Financial

Senior Data Engineer, Data Platform

March 2020 — March 2022

- Designed and implemented architecture for second generation **Data Platform** for greenfield product platform.
- Researched, evaluated, and onboarded Data Platform infrastructure vendors.
- Designed, implemented, and supported mission critical external **Data Products** consumed by financial institutions (Royal Bank of Canada, Fiserv, Silicon Valley Bank).

- Orchestrated pipelines and Data Product workflows with **Airflow**.
- First DE hire; Grew team to seven engineers and joined with Analytics team to form a larger **Data Organization**.
- Developed, deployed, and maintained **Python** and **Scala/Spark** projects along the data life cycle.
- Data stack: **Databricks, Snowflake, Airflow, dbt, Looker**. **Python** and **Scala** projects.
- Product stack: **Golang, Kubernetes, Kafka, PostgreSQL**.

Knotel, Inc.

Senior Data Engineer

November 2018 — December 2019

- Produced **Airflow** DAGs for ingesting data sources not available via **Stitch**.
- Built a **Change data capture** pipeline between two disparate internal platforms.
- Led a **Mapbox GL JS** project visualizing rich dataset of enterprise office locations.
- Backend: Created product platform messaging pipelines with **Apache Kafka**.
- Backend: Built core microservices (authorization, multi-tenancy) for internal product platform.
- Backend: Developed application features with models built by **Spark** jobs.
- Data stack: **Looker, Snowflake, dbt, Stitch**.
- Product stack: **Node.js, Express, PostgreSQL, PostGIS, Kubernetes**.

Corteva, Inc. (formerly DowDuPont Agriscience)

Senior Data Engineer

April 2018 — September 2018

- Implemented ingestion scheduling and dataset subscriptions for a **remote sensing** (satellite imagery) data ingestion platform.
- Platform stack: **Python, PostgreSQL, PostGIS, Django Rest Framework, Zappa**.
- AWS: **Fargate, API Gateway, Lambda, SQS**.

Enigma Technologies, Inc.

Data Engineer

August 2015 — February 2017

- Expanded functionality of **Python** ETL framework product.
- Delivered, configured, and supported data platform for engagements with clients such as **Merck KGaA** and **Two Sigma Investments LP**.
- Added dozens of individual ETL workflows to Enigma's 10k+ corpus of **public datasets**.
- Developed tooling to provide robust metrics for **project management** of data ingestion projects.

(roles prior to August 2015 provided upon request)

EDUCATION

University of Kentucky

B.S. Computer Science

Minor: Mathematics

Lexington, KY

August 2012