Chelsea Dole

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[Github](#) ▪ [LinkedIn](#) ▪ [Website](#)

══ TECHNICAL SKILLS ══

- Python
- JavaScript
- Node.js
- Django
- FastAPI

- PostgreSQL
- Elasticsearch
- Apache Kafka
- RabbitMQ
- Redshift

- Kubernetes
- Cloud computing (GCP, AWS)
- Docker
- Linux

══ WORK EXPERIENCE ══

Coffee Meets Bagel, *Remote*

<u>Senior Data Engineer</u>	*May 2021–Present*
<u>Data Engineer III</u>	*April 2020–May 2021*
<u>Data Engineer II</u>	*June 2019–April 2020*

Architected and built distributed systems to support CMB's "dater matching" machine learning models and business-critical data warehouses

- Designed and fully implemented an event-based feature engineering system providing real-time features to machine learning models. Resulted in an 85% reduction in feature calculation time and estimated 75%+ reduction in engineering time needed to author features

- Implemented a company-wide migration from RabbitMQ/Kinesis to Apache Kafka. Pitched project, wrote tech spec, configured topics/brokers, set up infrastructure, and migrated 50+ unique Kubernetes deployments without downtime or event loss

- Led project to shard a business-critical 3TB Postgres DB with ~4B writes/day. Built multiple POC sharding options, performed stress testing, and estimated costs

- Migrated a user-facing Elasticsearch cluster twice without downtime. Refactored data model resulting in 20% monthly cost savings, 11x reduction in document count, and 35% reduction in max query time

- Acted as technical lead/project manager for several new features: leading teams of 4-8 (engineers/PMs/Designers/QA) and keeping stakeholders updated during project execution and rollout

- Acted as technical mentor for an engineering intern during the 2021 internship program

- Organized and led company-wide projects aimed at improving code quality and system transparency, including: the creation of backend system runbooks, an automated release pipeline for internal Python packages, and the transition from schema-less to Avro internal events

<u>Technologies:</u> Python, PostgreSQL, Kafka, Elasticsearch, AWS (EC2, ECS, RDS, MSK, Redshift, Kinesis, S3, etc), Django, RabbitMQ, Kubernetes, Redis/Memcached, Jenkins, Docker, Linux, Git

Zonar Systems, *Seattle*

<u>Software Development Engineer I</u>	*Dec 2017–June 2019*

- Built backend applications to support a data analysis web platform for the Fleet Pipeline team

- Developed components of a Python/Flask data analysis API, a Golang event logging API, and a Dataflow data summarization pipeline

<u>Technologies</u>: Python, Golang, JavaScript/Node.js, Kubernetes, GCP (Dataflow, BigQuery, etc), Flask, Pandas/NumPy, Angular 2, PostgreSQL, Redis, DataDog, Git

PROJECTS

Invest In Chia   *March 2021–Present*

Co-founder of a small cryptocurrency startup in the Chia coin space

- Wrote code and automation to generate and transfer 11PB+ of data to customers across 500+ bare metal servers

- Instrumented monitoring and alerting systems

- Created and deployed company website, payment system, and internal admin dashboard

Technologies: Python, Django, Postgres, Stripe API, JavaScript, Linux

Personal Portfolio   *Jan 2018*

Simple personal website using HTML, CSS, and Javascript. Hosted using Github Pages

write-me   *Dec 2017*

PyPI package that generates elegant, specific READMEs based on a user's Python codebase.

Technologies: Python, Sphinx, PyPI

SPEAKING

Understanding Python's Memory Management   *Mar 2021*

10-minute introduction to CPython's internal memory manager given remotely as part of PyLadies International Women's Day 2021 event

Dreaming of Databases: 5 Questions for Data Layer Decisions   *Jan 2020*

25-minute talk given at the ThaiPy meetup in Bangkok to 100+ technical attendees. Talk covered database vocabulary, and discussed how to make educated decisions regarding database choice

Going Serverless: Deploying with GCP App Engine and Cloud Functions   *Jan 2019*

30-minute talk given at Puget Sound Programming Python (PuPPy) meetup to 120+ software engineers. Talk included the live deployment of a demo API with App Engine and the gcloud SDK

EDUCATION // CERTIFICATIONS

Code Fellows | Seattle, WA   *Aug–Dec 2017*
Certificate — Advanced Software Development in Python

University of California, Berkeley   *2013–2017*
Degree: Political Economy (B.A.)
Coursework: Economics, statistics, computer science, political history/theory, business, international trade
GPA: 3.40