

# Chelsea Dole

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

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## TECHNICAL SKILLS

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- Python
- Golang
- JavaScript
- SQL
- Postgres
- Elasticsearch
- Apache Kafka
- Kubernetes
- Cloud computing (GCP, AWS)
- Docker
- Linux

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## WORK EXPERIENCE

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### **Brex, Remote**

#### Senior Software Engineer (Data Storage)

*April 2022–Present*

- Provisions, configures, and optimizes infrastructure for 430+ production RDS Postgres DB instances
- Advises engineering teams at Brex on query optimization and designing for scale
- Owner of Temporal and Golang-based “Workflow Engine”. Leverages to build internal CLI-based functionality enabling engineers to perform tasks such as fixing broken indexes or table bloat
- Manages Postgres-adjacent services, observability tools, and extensions including PGBouncer, PGHero, SQLPad, Datadog, pg\_pack, pg\_partman, and more

Technologies: Postgres, Golang, AWS (RDS, EKS, etc), Kubernetes, Temporal, Redis, Linux, Git

### **Coffee Meets Bagel, Remote**

#### Senior Data Engineer

*May 2021–March 2022*

#### Data Engineer III

*April 2020–May 2021*

#### Data Engineer II

*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 ML models. Resulted in an 85% reduction in feature calculation time and estimated 75%+ reduction in engineering time needed to author features
- Led project to shard a business-critical 3TB Postgres DB with ~4B writes/day using Citus. Built multiple POC sharding options, performed stress testing, and estimated costs
- Implemented a company-wide migration from RabbitMQ/Kinesis to Apache Kafka. Pitched project, provisioned infrastructure, and migrated 50+ Kubernetes deployments without downtime or event loss

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

### **Zonar Systems, Seattle**

#### Software Development Engineer I

*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

Technologies: Python, Golang, JavaScript/Node.js, Kubernetes, GCP (Dataflow, BigQuery, etc), Flask, Pandas/NumPy, Angular 2, Postgres, Redis, Datadog, Git

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## PROJECTS

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### [Invest In Chia](#)

*March 2021–Present*

Technical 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

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## SPEAKING

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### [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

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## EDUCATION // CERTIFICATIONS

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### **Code Fellows I Seattle, WA**

*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