

# Devon Hake-Kinko

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## Experience

### Senior Staff Devops

**Sonder** September 2023 - November 2025

- Led project to upgrade 14 Postgresql RDS clusters from 11 (EOL) -> 15/16 with minimal downtime ranging from 20 seconds to 3 minutes
- Handled quarterly SOX compliance tasks
- Built cookiecutter templates to go from zero to production in 5 minutes
  - OTel instrumentation (traces, metrics going to collector, logs to stdout)
  - Reusable CI/CD pipelines (github workflows)
- Built CD-related config validation into our in-house CLI and CD pipelines to catch common deployment and configuration issues as early in the development cycle as possible
- Led AWS cost optimization initiative, cutting our AWS bill in half:
  - Migrated all RDS instances in lower envs to self-hosted helm charts (Postgresql/Mysql)
  - Migrated all ElastiCache instances in lower envs to self-hosted helm charts (Valkey)
  - Reduced telemetry ingest by tightening otel-collector filters.
  - Right sizing with VPAs
  - Drove additional savings via data transfer/storage optimizations, workload scheduling (off-hours scale-down), etc
- Led Grafana Cloud (Mimir, Loki, Tempo) to Dynatrace migration (all telemetry ingested through OTel)

### Staff Devops

**Sonder** October 2022 - September 2023

- Replaced legacy CD pipelines (buddy) with reusable Github workflows and argo-cd
  - Provided a single pane of glass to understand what failed in a deployment pipeline
  - PR based ephemeral environments in EKS (deployed to ephemeral namespaces)
  - Built generic helm chart to standardize service workloads
  - Replaced legacy shell script deployment pipeline with maintainable Go application
- Completed large migration from Artifactory to AWS CodeArtifact and Github packages within 2 weeks
- Eliminated the use of static AWS credentials from CI/CD pipelines with custom ABAC solution
- Built a minimal Atlantis clone for Pulumi which gave developers self-serve access to Pulumi
- Managed 10 EKS clusters (all nodes ran Bottlerocket OS), including a fully isolated PCI-compliant cluster
- Setup temporary, on-demand AWS production access for developers, using Lumos and AWS Identity Center (auditable and SOX compliant)

## Senior Site Reliability Expert

**Lightspeed** August 2021 - October 2022

- Designed and implemented org wide cloud cost optimization system (FinOps)
- Built “ETL” system that generates cost attribution reports (broken down by business unit, product, team, etc) for the following SaaS's: Datadog, Jfrog Artifactory, Harness, Circleci, logz.io
- Revamped our developer platform (Google Kubernetes Engine based) by building an easy-to-use Web onboarding app (like Heroku) for new Micro-services.
- Implemented org wide cost saving solutions:
  - Docker registry caching proxy to save on data transfer costs
  - right sizing and more liberal use of spot instances (GKE)

## Site Reliability Expert II

**Lightspeed** August 2019 - August 2021

- Built Jenkins and Argo-cd based CD pipeline for our in house Kubernetes (GKE) Platform
- Onboarded multi-regional services with PCI compliance requirements
- Accelerated developer adoption of our GKE platform by automating creation/bootstrapping of infra (circleci, Artifactory, Jenkins pipeline, terraform (GCP resources), helm chart, vault policies, Datadog Monitors)
- Added preview environments (PR deployments) to our GKE platform
- Working with development teams spread across different continents

## DevOps

**Sofdesk** May 2018 - August 2019

- Migrated CI/CD pipelines from Gitlab-ci to Travis-ci
- Architected a scalable distributed testing system for a team of PhD researchers
- Setup/maintenance of infrastructure for micro-services on AWS using Terraform (Elasticbeanstalk, ElastiCache, RDS, lambda, ECS, Cloudwatch, SNS, SSM, KMS, etc)
- Built on demand ephemeral container based QA environments
- Maintaining and grooming of backlog
- Worked with 3rd party digital marketing firms
- One man army OPS team managing production applications on multiple cloud providers
- Setup on-call schedules for incident management response (Pagerduty)
- Planned and executed a large scale infrastructure migration (Elasticbeanstalk micro-services -> ECS)
- Designed & built a distributed lidar conversion system (capable of converting 70TiBs of data within a week)
  - Built on top of AWS **ECS** using **Celery** and RabbitMQ. Highly scalable system that usually ran on around ~1000-1600vCPU cores at any given time.

## Web developer

**Broadsign** January 2016 - May 2018

- Setup CI pipeline & automate deployments (Jenkins, Bitbucket) & maintained for over 2 years.
- Setup base framework for e2e selenium tests

- Worked on multiple web services (SOAP, REST) that involved synching data
- Also worked on frontend stack
- Solve production related performance issues with the ops team
- Use of statistical profilers to help with performance investigations
- Packaged web products into easy to install .debs
- Followed BDD testing methodology (gherkin)
- Followed agile methodology (SCRUM)
- JIRA used for sprint planning

## Personal Projects

**Side projects**      Cool stuff I've worked on

- Managed backup orchestration service
- Ethereum developer platform
- Twitch Ether donation platform (failed to go to market before competition)

### Interests

- Writing scalable web services
- Building and implementing new operational processes
- CLI tools that offer a good UX
- Automating everything that doesn't involve writing code (ex: deployment, packaging, tests, provisioning infra, etc)

### Skills & tools

- Python, Go ♥, Javascript/Typescript, SQL
- Docker
- Git
- Terraform
- Pulumi
- AWS (EKS, Elasticbeanstalk, RDS, ElastiCache, Lambda, ECS Fargate, SNS/SQS, IAM, etc)
- Linux networking troubleshooting tools (nmap, ncat "openbsd/nmap flavor", tcpdump, Wireshark, etc)
- Configuration management tools (Ansible, extensions "CloudFormation superset")
- Cloud architecture/automation
- GCP (Cloud SQL, GKE, Cloud Run, Cloud Functions, Cloud Storage, Pub/Sub, Stackdriver, IAM, VPC/Networking, etc)
- Kubernetes (Istio, ArgoCD, Tekton, GKE, OPA, KubeBuilder, etc)
- Too many SQL like DSLs to list
- CI/CD tools (CircleCI, Github Actions, Travis-CI, Harness, Concourse-ci, Gitlab-CI)
- Grafana Cloud stack (loki, mimir, tempo, IRM)
- Dynatrace
- OpenTelemetry (instrumenting services and running OTel collectors)

### Personal Qualities

- Excellent troubleshooting and debugging skills.
- Passionate about mentoring peers.

- Prioritizing tasks based on value.
- Great at coordinating tasks between multiple development teams