

Sean Collins

SENIOR SITE RELIABILITY ENGINEER

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Selected Experience

Vercel

San Francisco, CA

SITE RELIABILITY ENGINEER

2024 —

- **Primary experience:** Terraform, Kubernetes, Datadog, PagerDuty, Next.js, AWS
- Audited infrastructure to identify weak points and failure modes when serving traffic.
- Streamlined the on-call experience by auditing and addressing gaps in tools, process, and coverage.
- Captained coordinated responses and reviews of infrastructure failures to quickly restore service.
- Automated AWS cost reporting and segmentation to facilitate financial forecasting.

WebstaurantStore

Remote

SENIOR SITE RELIABILITY ENGINEER

2023 — 2024

- **Primary experience:** Python, Docker, C#, Ansible, Kubernetes
- Designed and implemented a malware scanning microservice against MinIO.
- Instrumented ASP.NET and Flask web applications end-to-end into Grafana via the OpenTelemetry framework.

LinkedIn

Sunnyvale, CA

SENIOR ENGINEER, SITE RELIABILITY

2017 — 2022

- **Primary experience:** Python, MySQL, Java, Go, Linux
- Created distributed agent for MySQL infrastructure, which consolidated monitoring, alerting, and metrics emission for all 1000+ database servers into a single consistent codebase.
- Created streamlined tool to automate common operational tasks, reducing time spent by up to 40%.
- Consulted for 2-3 projects per quarter as a Python automation subject matter expert.
- Collected data to highlight where human hours could be automated away on a monthly cadence.
- Exposed live customer availability metrics via an internal dashboard.
- Represented relational storage in various horizontal initiatives, in the areas of observability, alerting/metrics, and operations at scale.
- Reduced change-related production issues by applying existing tooling to test, canary, and gradually roll out new infrastructure changes.

Selected Projects

Incident response overhaul

TERRAFORM, DATADOG, PAGERDUTY, INCIDENT.IO

2024 —

Auditable, rapid, and reproducible incident response.

A series of workflow and escalation changes were submitted through an RFC process and implemented in Terraform to produce a consistent chain of responsibility and process during a coordinated response of any scale.

MinIO malware scanning service

MINIO, RABBITMQ, CLAMAV, PYTHON, DOCKER, KUBERNETES

2024

Automated malware scans against object data.

Upon a new object upload, the service submitted a scanning job to a worker pool. A worker would stream the data to memory and scan it for malware. The worker pool could be scaled up and down depending on the volume of new objects to scan or time of day.

mysqlmon

PYTHON, MYSQL

2019 — 2022

A distributed, agent-based monitoring, alerting, and availability framework.

mysqlmon was a distributed agent which enabled hosts to monitor, alert, and expose live metrics. Release in the agent resulted in a major paradigm shift in the team, enabling full operational onboarding of new engineers within one month and reducing operational overhead within the team to the extent that others could begin building infrastructure of their own.

Education

Georgia Institute of Technology (Georgia Tech)

Atlanta, GA

B.S. COMPUTER SCIENCE, CHINESE MINOR

Aug 2012 — Dec 2015

- Specialized in computer architecture, distributed systems, database systems, and networking.
- Studied at Shanghai Jiaotong University as part of a business and technology Chinese immersion program.