

Sean Collins

SENIOR SITE RELIABILITY ENGINEER

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Experience

LinkedIn

Sunnyvale, CA

SENIOR ENGINEER, SITE RELIABILITY

Feb 2017 — Present

- **Primary experience: Python, MySQL, Linux, Bash, Oracle Solaris**
- Created a distributed health monitor, metrics emission, and alerting framework for MySQL production infrastructure.
- Lead various automation initiatives to reduce human interaction for common data access and maintenance tasks.
- Exposed live customer availability metrics across various online, offline, and near-line data systems.
- Reduced change-related production issues by applying existing tooling to test, canary, and gradually roll out new infrastructure changes.
- Supported operations engineers building and maintaining consistent, scalable automation compatible with LinkedIn's tech stack.
- Applied measured analysis and manual intervention where necessary to maintain site stability.

Toontown Rewritten

Remote

TECHNICAL OPERATOR

May 2020 — Present

- **Primary experience: Kubernetes, Helm, Python (Panda3D game engine)**
- Maintain development and operational infrastructure for *Toontown*, a massively multiplayer online role-playing game (MMORPG).

Spiceworks

Austin, TX

SOFTWARE DEVELOPER / DEVOPS ENGINEER

May 2015 — Jan 2017

- **Primary experience: C#, PowerShell, Ruby, PostgreSQL, JavaScript, Jenkins, Docker, Kubernetes, Hyper-V**
- Lead development and deployment of hosted network monitoring application.
- Developed and deployed system inventory application.
- Maintained build automation and continuous deployment flow for multiple teams.
- Managed deployment and operational work for containerized web applications deployed to AWS.

Selected Projects

mysqlmon

PYTHON, MYSQL

2019 — Present

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

Previously, monitoring infrastructure written for MySQL consisted of several disparate scripts run from a centralized location across several minutes each hour. *mysqlmon* was a consistent, decentralized framework to capture this functionality and package it into a single deployable, allowing hosts to monitor, alert, and expose live metrics of themselves.

Production CI/CD overhaul

HELM, GITLAB CI, KUBERNETES, RANCHER

2020

Simple, consistent client updates and deployments to Kubernetes.

Rewrote a previously manual deployment system, such that we are now able to publish client and server game updates via code merge and a few clicks. We used GitLab CI as our CI platform to publish client patches and containerize server updates, and declared our Kubernetes infrastructure (ingresses, services, policies, etc.) in a Helm chart.

Spare Finder

PYTHON

2018 — 2019

An automation piece to monitor changes in unallocated hardware over time

At large scale, unused servers sometimes go unnoticed, wasting millions of dollars in upkeep. Spare Finder would identify this hardware against the teams they were originally assigned to, giving management additional insight to reduce annual hardware cost.

Education

Georgia Institute of Technology (Georgia Tech)

Atlanta, GA

B.S. COMPUTER SCIENCE, CHINESE MINOR

Aug 2012 — Dec 2015

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