

Tate Wellington Hanawalt

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Technical Skills

Languages & Frameworks: ArgoCD, C, C++, Docker, Golang, Java, Javascript, GraphQL, gRPC, Kubebuilder, Kubernetes, Linux, Kubernetes Operators, MySQL, MongoDB, MUI, NodeJs, Python, React, React native, shell (bash, zsh, etc...), Terraform, Typescript, Unix, Unreal

Platforms: AWS, GCP, Digital Ocean

Certifications: Certified Kubernetes Administrator (CKA)

AI Tools: Cursor, Claude Code, MCP development and usage (various languages)

Experience

Spotify

8/2021 — Present

SRE II - Deployment Infrastructure - Core Infrastructure

- Automated workload migration across regionally sharded clusters, successfully migrating workloads accounting for over 200,000 vCPU across 10+ GKE clusters
- Led container registry migration from GCR to AR tooling development. Designed and led development of an idempotent golang service to migrate all 4950/140,000 GCP projects from GCR to AR. Service leverages an event based topology to migrate individual projects, upload permissions artifacts to buckets and store relevant migration event data in CloudSQL Postgres. This requires elevated permissions.
 - Granted permissions to assign permissions across all accounts & cloud resources at Spotify as part of this work
- Develop and maintain K8's based deployment infra (ArgoCD, Kubernetes Operators, Helm Charts etc...)

SRE II - Declarative Infrastructure - Core Infrastructure

- Develop and maintain Spotify declarative infrastructure - org wide admin permissions on declarative resources + k8s cluster management, developing and deploying in-house and google maintained operators
- Develop and maintain "Kubernetes operator CD" which is Spotify's internal operator deployment system.
- Develop repo-enabler service granting and siloing gap project namespace permissions to associated repositories via gap project and repo ownership attribution.

SRE II - Reliability Tooling - Core Infrastructure

- Service Level Platform - service for defining service level indicators and objectives across Spotify backend services
- Synthetics - Led migration from v1 to v2 in Spotify's internal monitoring framework, improving test accuracy and service alignment by adopting declarative test definitions, integrating CI/CD event workloads, and shifting test ownership to service teams.
- Developed an in-house synthetic testing framework that enhanced visibility into the reliability of Spotify's backend services. By introducing declarative test definitions, integrating with CI/CD event workflows, and decentralizing test ownership to service teams, the solution significantly improved test accuracy and alignment. The modernized system now runs over 1 million black-box tests daily across all global regions
- Engineered an internal platform enabling service owners to define and monitor Service Level Objectives (SLOs) and Indicators (SLIs) for Spotify's backend services.
- Developed python cli to declaratively propagate user defined declarations for Service Level Objectives (SLOs) and Indicators (SLIs) Spotify's services.

Panther Labs

01/2021 — 05/2021

SRE - Core Infrastructure

- Owned incident response and SRE practices at Panther Labs
- AWS cloudformation deployments, Infrastructure Services
- Infrastructure monitoring & visibility
- Customer SSO service integrated with AWS Cognito

Incorta

2/2019 — 4/2020

Cloud Engineer - Cloud Team

- Configured Kubernetes infrastructure and developed pod logging interface
- Design and build NodeJs backend & infrastructure
- Re-Architect routing structure using NodeJs & express, introduced internal NPM module development

Developer - Apps Team

- Docker Incorta Version Manager (docker image compiler)
- JBrowse Bintray Publisher

Solutions Engineer - Customer Success

- Managed on-prem instances for an 11 million dollar contract with Apple
- Developed environment comparison tooling
- Developed Business reports over application usage and system utilization

Keweenaw Research Center

2016 — 2018

Research Associate - Student Research Program

- Remote telemetry ingestion and processing to orient digitized military vehicles in a rendered environment of their actual location & orientation
- Lidar point cloud environment collection, remote telemetry/lidar collection, analysis, and rendering in Unreal Engine & a Proprietary military rendering engine
- ITAR Facility

Education

B.S Software Engineering, Minor Economics - Michigan Technological University, 2018

Open Source Contributions

Kubernetes-Sigs <https://github.com/kubernetes-sigs>, GCP, Homebrew

Side Projects

Brew/Yum Packager (compile and host brew/yum installable projects)	brew, Kubernetes, NodeJs, shell, yum
Docker image compiler	expect, goLang, java, mysql, node, python, shell, unix, yaml
Tesla (unofficial) API vehicle monitor	goLang, Kubernetes, OAuth
Hackathon Award - Raspberry Pi controlled Keurig coffee maker	
Hackathon Award - Brain controlled midi instrument	