



Sean Hartrich

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EXPERIENCE

Senior Site Reliability Engineer

March 2023 - Present

Site Reliability Engineer

July 2021 - March 2023

Okta - San Francisco, CA

- Led end-to-end design and deployment of Okta TDI's enterprise JFrog Artifactory platform on EKS, delivering the org-wide artifact management solution; implemented Terraform IaC, Istio service mesh, Okta on-premises provisioning agent for SSO/SCIM, Docker and Chainguard pull through caching, GitHub Actions CI/CD, and disaster recovery runbooks.
- Owned and operated Okta TDI's FedRAMP High GovCloud environment, driving compliance and reliability; including AWS GovCloud Organization, STIG-compliant self-hosted GitLab environment, FIPS compliant Python/GitLab CI VDI image pipeline to maintain fleet of 800 ephemeral Amazon WorkSpaces; delivered monthly POAM reporting for federal audits.
- Managed and scaled a 500+ account AWS Organization; built the account provisioning pipeline and enforced org-wide security guardrails including SCP-based least privilege and region restrictions, declarative policies, centralized CloudTrail logging, AWS Config and Security Hub standards, GuardDuty threat detection, AWS Identity Center (SSO) for centralized access management, and mandatory tagging policies.
- Architected and deployed an automated, org-wide AWS Config compliance and remediation pipeline across the TDI AWS Organization; enabled real-time auto-remediation of insecure security group rules, enforced IMDSv2 via SCPs, other guardrails, and built cross-account alerting using EventBridge, Lambda, and SNS to Slack.
- Operated and evolved the GitHub Actions Runner Cluster (GHARC), a self-hosted EKS platform powering CI/CD for all TDI teams; implemented complex Kubernetes baselines, JFrog registry access, and end-to-end test workflows, and authored the GitLab to GitHub EMU migration guide enabling org-wide self-service pipeline adoption.
- Drove cross-functional cloud security initiatives in partnership with internal security teams, deploying CrowdStrike across infrastructure, establishing GovCloud CloudTrail to Splunk observability pipelines, and hardening breakglass IAM policies for regulated environments.

Software Engineer

May 2018 - July 2021

Zuora - Redwood Shores, CA

- Architected and engineered enterprise data lake driving critical business insights (leveraging AWS Lambdas, Glue/Apache Spark, Athena, QuickSight, S3).
- Designed Serverless AWS CloudFormation project template to rapidly generate pipelines for new data sources (structured and unstructured) in a matter of hours to ingest raw data, compress into parquet format, de-duplicate records, and compile queryable Hadoop hive cluster.
- Engineered B2B Node-Express e-commerce platform selling/provisioning Zuora University and other training products, capturing millions of dollars annually.
- Developed Salesforce application to allow non-technical users to build customized workflows to execute cross-object aggregations in asynchronous scheduled batch jobs and real time events.
- Coordinated with Applications team for regular sprint planning, code-reviews, and other Agile practices.

Data Analytics Specialist

May 2017 - May 2018

NRT, LLC - Deerfield, Illinois

- Engineered a Python-based internal reporting platform automating transaction processing and delivering interactive KPI dashboards across all 27 US companies, replacing manual reporting workflows for 200+ FTEs.
- Built quantitative staffing and productivity models for a centralization initiative, directly informing decisions to hire and train 128 new employees; authored ad-hoc analysis reports for COO and CFO.

SKILLS

Infrastructure: Terraform, AWS (EKS, EC2, ECS, IAM, Organizations, Config, CloudFormation, Stacksets, EventBridge, Lambda, CloudTrail, S3, RDS, ECR, WorkSpaces, GovCloud), Bash, Docker, Kubernetes, Helm, Kustomize, Istio, Packer

CI/CD & Security: GitHub Actions (OIDC, composite actions, self-hosted runners), GitLab CI/CD, GitHub ARC, CrowdStrike Falcon, Cloud Custodian, Checkov, IMDSv2, FIPS Compliance, YubiKey/TOTP MFA, Okta (SAML, SSO, SCIM), IAM Identity Center

Observability: Splunk, CloudWatch, PagerDuty, Grafana, Prometheus, DataDog

Backend: Python, GoLang, Node.js, Django, Flask, RESTful APIs

Frontend: JavaScript, React, Next.js, Redux, Cypress, D3

AI Tooling: Claude Code (agentic coding workflows, IaC generation, runbook authoring, documentation), Gemini (research), LLM-assisted infrastructure development

Data: SQL, MySQL, PrestoDB, Postgres, Hadoop, JFrog Artifactory

General Proficiencies: Shell scripting, Linux, Git, Jira, Agile, LucidChart, HTML, CSS

EDUCATION

B.S. Industrial and Systems Engineering

Georgia Institute of Technology - Atlanta, Georgia

August 2014 – May 2018

Graduated with High Honors