



[linkedin.com/in/ross-t-bryan](https://www.linkedin.com/in/ross-t-bryan) • rtbryan.cloud

Site Reliability Engineer and Software Developer

SKILLS

Programming Languages: bash, c, go, java, node, python, Shell Scripting, YAML

Container Orchestration: Buildah, Containerd, cri-o, Docker, Docker Compose, Kubernetes, OpenShift, Podman, Rancher

Operating Systems: AIX, CentOS, CoreOS, Debian, Fedora, RHEL, SLES, Ubuntu, Windows Servers

Configuration Management: Ansible, Chef, Puppet, Terraform

Frameworks/Middleware/Stacks: chi, Django, ExpressJS, Flask, gin, gorilla/mux, Httpd, IIS, Istio Service Mesh, Jboss, k8s go-client, Keycloak, kubebuilder, Linkerd, Nginx, operator-sdk, Rabbitmq, Rails, Redis, Shibboleth (oauth, SAML), Tomcat

Databases: BigQuery, BigTable, cassandra, Cosmos DB, MySQL/ MariaDB, Postgres, Spanner, SQL Server

WORK EXPERIENCE

Cruise • Oct 2022 - Present

Senior Site Reliability Engineer II

- Championed the establishment of SLO methodology for 60+ mission critical services, resulting in improved reliability and increased technical ownership and advocacy.
- Led the development and implementation of a new monitoring platform for k8s deployments, statefulsets, cronjobs, CloudSql/ Spanner instances, Redis, dns, vault, Istio and application runtime. Reduced developer toil by thousands of hours per year while increasing service reliability with golden path monitoring.
- Saved 2+ million per year by creating a gitops workflow and RESTful API developing an observability operator as the primary interface to all observability related resources and configurations such as monitors, SLOs, and dashboards abstracting the definitions with the backend provider to migrate off DataDog.
- Develop in house CICD system responsible for progressive deliveries of multi-region services and associated event log and observability with all changes happening within environments increasing reliability of deployments and reducing MTTR with advanced observability into our cloud ecosystem.
- Triage incidents with foundational end-to-end knowledge and support of entire command and control cloud services and ecosystem over Fleets of Autonomous Vehicles as both Incident Commander and Technical Leader roles.

Red Hat • Mar 2021 - Oct 2022

Lead Site Reliability Engineer

- Architect, design, implement, and oversee projects from request through implementation. Communicate with stakeholders priorities, timelines, and technical explanations as needed.
- Delegate work and enable all members of engineering team to progress on tasks and act as a force multiplier and assist and unblock engineers on my team and across the company.

Senior Site Reliability Engineer

- Build and maintain a web service deployed into Azure public and government clouds responsible for CRUD operations across fleets of managed OpenShift clusters.
- Lead effort for Azure Red Hat OpenShift FedRAMP certification and requirements including meeting FIPS 140-2 requirements, implementing automated PKI rotation, develop air gapped environments, present evidence to auditors in HIPAA and FedRAMP audits, and document compensating controls.
- Participate in on call rotation and provide operational support to thousands of managed OCP clusters and conduct RCA on incidents and hold blameless postmortem retrospectives.

Michigan Medicine • Ann Arbor, Michigan • May 2014 - Mar 2021

Senior DevOps Engineer

- Designed and implemented the migration of 25 applications from a vendor to self-hosted in GCP within a six-month window saving the business from renewing a \$250,000 annual support contract.
- Audit and validate we are HIPAA compliant in on premise and multi-cloud environments.
- Support a robust, scalable educational EHR solution in AWS.
- Implement CI/CD solutions, pipelines, and assembly lines solving day 2 operations
- Build and deliver self service operations to empower customers to consume IaaS, PaaS.
- Develop infrastructure as code to implement modular, repeatable, automated solutions using Ansible, Terraform, and GitOps.
- Administer multiple Kubernetes clusters through entire life cycle management on premise and in the cloud.
- SRE role responsible for defining SLA's achieving SLO's for customer applications and all internal tooling included self-hosted GitLab, SonarQube, Nexus OSS, Rundeck, and Jenkins.

Platform Engineer

- Plan, develop, and maintain internal development platform responsible for running and deploying apps.
- On call support for vendor and internally developed clinical and research web applications on LAMP, java/apache/jboss, ruby on rails, and .NET stacks.
- Automate routine processes and toil, implement CI/CD pipelines and automated code deployment.
- Created canary deployments within internal platform and A/B feature testing
- Schedule and participate in on 24x7 call rotations.

EDUCATION

Master of Science - MS in Information Systems & Technology

University of Michigan • Jan 2018 - Jun 2022

Specialization: Enterprise Applications & Systems

Bachelor's Degree in Computer Science

Grand Valley State University • Jan 2010 - Jan 2016

Bachelor's Degree in Criminal Justice

Grand Valley State University • Jan 2010 - Jan 2016

CERTIFICATIONS

CKA: Certified Kubernetes Administrator

The Linux Foundation • May 2019 - May 2022

Certified Secure Web Application Developer

Mile2 Security • Mar 2018 - Mar 2021