

Ryne Schroder

Senior/Staff Infrastructure Engineer | Cloud & Platform Engineering | Data + AI Architect

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SKILLS

GCP: Terraform, Cloud Run, Cloud Functions, Pub/Sub, Cloud Tasks/Scheduler, Cloud Storage, BigQuery, Cloud Build, Artifact Registry, IAM, Secret Manager, KMS, Cloud Logging, Cloud Monitoring

Platform/Security: Docker, CI/CD, Cloudflare (DNS/TLS/WAF/rate limiting), VPC/HTTPS Load Balancing, JWT/Auth0, least privilege, audit logging, incident readiness

Data/AI: Python, TypeScript/Node, SQL, Postgres/pgvector, RAG (hybrid retrieval + citations + refusal), evaluation/regression, geospatial analytics, forecasting/backtesting

PROFESSIONAL EXPERIENCE

Independent Consultant – Fractional Cloud & AI Architect – Denver, CO

01/2024 – present

Porter Law Office (Law Firm, Real Estate Investment) • Challenger Farms LLC (Agriculture Ops)

- Built a reusable platform baseline (Terraform landing zone + CI/CD gates + monitoring/alerting), cutting new environment provisioning from ~4–8 hours to ~20–30 minutes.
- Automated assessor-delivered Excel feeds into BigQuery with schema drift handling, quality gates, and replay/backfills; reduced data availability lag from ~1–3 days to <15 minutes after receipt.
- Implemented parcel-level geospatial analytics + alerts; delivered forecasting MVP with backtesting (MAPE ~12–15% vs ~18–22% baseline) and drift/data-quality monitoring.
- Delivered AI knowledge platform (hybrid retrieval + citations + refusal mode) with matter-scoped RBAC, encryption, audit logs, and restore drills (RTO ~60 minutes, RPO 24 hours), reducing document lookup from ~5–10 minutes to <1 minute and supporting ownership transition workflows.
- Built offline-first PWA + Raspberry Pi telemetry (heartbeat + alerting); reduced manual systems checks by ~60–80% and improved outage detection from ~6–12 hours to <10 minutes.

Vendrix Inc. – Senior Infrastructure / Platform Engineer / Founding Engineer – Birmingham, Alabama **06/2021 – 04/2023**

- Owned the design, deployment, and operation of a cloud-native, mission-critical platform serving enterprise customers.
- Architected and operated production infrastructure on GCP, deploying containerized services to Cloud Run and Cloud Functions with autoscaling and high availability.
- Designed event-driven systems using Pub/Sub, Cloud Tasks, Cloud Scheduler, and Cloud Storage events, including a Cloud Function pipeline for PDF-to-image processing triggered by storage uploads.
- Implemented secure networking using VPC connectors, firewall rules, and HTTP(S) Load Balancing, with Cloudflare providing DNS, TLS termination, edge security, and rate limiting.
- Managed IAM, service accounts, and secrets, implementing least-privilege access and secure secret distribution via GCP Secret Manager.
- Implemented MongoDB Client-Side Field Level Encryption (CSFLE) backed by GCP KMS with key rotation to protect sensitive data and reduce compliance scope.
- Built CI/CD pipelines using Cloud Build and Artifact Registry, enabling repeatable, auditable deployments across environments.
- Established observability and operational monitoring using Cloud Logging and Cloud Monitoring to support reliability and rapid incident response.
- Led migration efforts from App Engine to Cloud Run, and from GitLab to GitHub and Jira to GitHub Projects, improving operational efficiency and developer workflow.
- Provided technical guidance, architectural documentation, and hands-on implementation across the full platform lifecycle.

ESCO Construction – Engineering Manager – Evergreen, Colorado

03/2019 – 01/2021

- Managed team, schedule, cost, and operational data for programs totaling roughly \$200M.
- Supported executive reporting and risk management through disciplined operational tracking, early issue surfacing, and follow-through on schedule and cost drivers.

SELECTED PROJECTS & CASE STUDIES

EventPulse Data Platform (portfolio / client analog) – Data Architect

- Designed contract-driven ingestion patterns using YAML data contracts, schema drift classification, lineage artifacts, replay/backfills, and versioned published views/APIs.
- Operationalized validation and reprocessing with CI checks and runbooks to improve correctness, recoverability, and downstream reporting consistency.

Grounded Knowledge Platform (portfolio / client analog) – Data & AI Architect

- Built content architecture using metadata tags, citation-required responses, refusal mode, and prompt-injection safeguards for higher-trust knowledge workflows.
- Added an evaluation harness for retrieval quality and safety regression, creating measurable governance boundaries for AI-assisted document systems.

EdgeWatch Telemetry Platform (portfolio / client analog) – Data / Systems Architect

- Designed buffered edge ingestion with idempotency, offline detection, and alert routing rules such as dedupe, throttle, and quiet-hours handling.
- Focused on audit-friendly event storage and operational dashboards that make distributed systems easier to monitor and support.

EDUCATION

Hack Reactor – Advanced Software Engineering Immersive (2021)

Colorado State University – M.Eng. (2016), B.S. Civil Engineering, Honors (2014)

PROFESSIONAL AFFILIATIONS & HONORS

Chi Epsilon • Tau Beta Pi • CSU Outstanding Leadership Award • CSU Honors • CSU President's Leadership Program Scholar