

# AIDEN RHAA

AWS Cloud Engineer | DevOps | Platform Engineering | AWS & Terraform Certified

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Portfolio: [manynames3.github.io/cloudresume](https://manynames3.github.io/cloudresume) | GitHub: [github.com/manynames3](https://github.com/manynames3) | LinkedIn: [linkedin.com/in/aidenrhaa](https://linkedin.com/in/aidenrhaa)

## PROFESSIONAL SUMMARY

AWS Cloud Engineer with a business-ownership and automation background, backed by a deep project-based cloud portfolio across Terraform, GitHub Actions CI/CD, ECS Fargate, EKS/GitOps, Lambda/serverless data products, API Gateway, RDS/PostgreSQL, Docker, Cognito/JWT auth, OPA/Rego, observability, audit logging, and cost controls. Builds secure, production-style AWS systems with validation artifacts, test coverage, policy checks, runbooks, teardown discipline, public GitHub repos, and live demos. Brings operator-level ownership from running service businesses and translating real workflows into cloud architectures.

## CLOUD ENGINEERING HIGHLIGHTS

- Built infrastructure change and governance platforms spanning Terraform plan parsing, deterministic policy checks, sensitive-value redaction, blast-radius analysis, OPA/Rego decisions, GitHub checks/comments, request replay, audit persistence, and approval-gated actions.
- Delivered production-style AWS container and data platforms using ECS Fargate, ALB, CloudFront/WAF, RDS PostgreSQL, RDS Proxy, Redis-compatible caching, Secrets Manager, CloudWatch, Terraform, GitHub Actions OIDC, smoke tests, and cost-conscious teardown paths.
- Built event-driven AWS data products using API Gateway, Lambda, SQS/DLQ, EventBridge Scheduler, DynamoDB, S3 source catalogs/snapshots, CloudWatch/X-Ray, Terraform, and CI, including live GrantStack and QueueWatch workflows.

## CERTIFICATIONS

AWS Certified Solutions Architect - Associate | AWS Certified Developer - Associate | HashiCorp Certified: Terraform Associate

## TECHNICAL SKILLS

**Cloud and AWS:** VPC, IAM, ECS Fargate, EKS, Lambda, API Gateway, Step Functions, S3, S3 Vectors, DynamoDB, RDS PostgreSQL, RDS Proxy, Bedrock, Textract, Cognito, CloudFront, WAF, ALB, ECR, SQS, EventBridge, Transcribe, CloudWatch, X-Ray, CloudTrail, Secrets Manager, SSM, AWS Budgets

**Infrastructure and CI/CD:** Terraform, modular IaC, GitHub Actions, OIDC role assumption, Docker, Docker Compose, Cloudflare Pages, deployment pipelines, Checkov, TFLint, CodeQL, runbooks, ADRs, smoke tests

**Containers and Platform:** Kubernetes, Amazon EKS, ECS Fargate, Helm, ArgoCD, IRSA, External Secrets, Prometheus, Grafana

**Programming and Data:** Python, TypeScript, JavaScript, Node.js, React, Next.js, FastAPI, Fastify, PostgreSQL, Bash, REST APIs, OpenAPI, data pipelines

**Security and Operations:** least-privilege IAM, private subnets, security groups, OPA/Rego, JWT/Cognito auth, API keys, presigned S3 URLs, WAF/rate limiting, OpenTelemetry, CloudWatch alarms

## CLOUD ENGINEERING PROJECT EXPERIENCE

*Independent production-style AWS portfolio with public repos, live demos, validation artifacts, test coverage, security checks, runbooks, and teardown documentation.*

### TerraGate - Terraform PR Risk Gate

GitHub: [github.com/manynames3/terragate](https://github.com/manynames3/terragate) | Live Demo: [terragate.hangi87.workers.dev/](https://terragate.hangi87.workers.dev/)

- Built an AI-assisted Terraform PR review platform to model safer infrastructure change review using FastAPI, Next.js, PostgreSQL, LangGraph, Terraform plan JSON parsing, deterministic policy checks, GitHub checks/comments, and approval-gated actions.
- Implemented security, cost, reliability, and governance findings with sensitive-value redaction, blast-radius analysis, runbook checklist generation, audit persistence, Alembic migrations, Docker Compose, and GitHub Actions CI.
- Added guarded public access mode with sample Terraform plans, upload limits, sandbox disablement, mock GitHub writes, and documented Cloudflare Workers plus AWS API Gateway/Lambda deployment paths.

### Clearpath - AWS Fargate Lead Intelligence API

GitHub: [github.com/manynames3/clearpath-fargate-api](https://github.com/manynames3/clearpath-fargate-api)

- Delivered a production-style FastAPI lead-intelligence service for real business workflow requirements using ECS Fargate, Docker, ALB, CloudFront/WAF, private RDS PostgreSQL via RDS Proxy, Secrets Manager, CloudWatch, and modular Terraform.
- Improved lead analysis and data quality with provider/source scorecards, lead scoring, county resolution, workbook field mapping, dashboard views, and source/county performance APIs.
- Validated AWS readiness with 2 healthy Fargate tasks, healthy API/webhook target groups, CloudFront/WAF edge protection, CloudWatch alarms, 26 FastAPI tests, 339 passing Checkov checks, and a documented 93-resource teardown.

### BrokerOps Platform - ECS/RDS Reconciliation Platform

GitHub: [github.com/manynames3/brokerops-platform](https://github.com/manynames3/brokerops-platform) | Live Demo: [brokerops-platform-web.pages.dev](https://brokerops-platform-web.pages.dev)

- Built a public production-capable insurance reconciliation platform with Next.js, TypeScript/Fastify API, worker services, PostgreSQL, Redis-compatible caching, Docker Compose, Terraform, ECS, RDS PostgreSQL, CI/CD, blue-green deployment support, observability, and operational runbooks.
- Implemented carrier statement ingestion, transaction normalization, reconciliation exceptions, human review, audit history, evidence-grounded AI exception review, local/preview/production profiles, AWS OIDC workflows, ECS migration/smoke-test path, and cost-conscious preview teardown.

### AegisDesk - Self-Hosted CloudOps AI Control Plane

GitHub: [github.com/manynames3/aegisdesk-cloudops-control-plane](https://github.com/manynames3/aegisdesk-cloudops-control-plane) | Live Demo: [d27myiy7bbj1rz.cloudfront.net](https://d27myiy7bbj1rz.cloudfront.net)

- Built a live self-hosted CloudOps AI control plane on AWS using S3, CloudFront, Lambda, API Gateway, Cognito/JWKS auth, DynamoDB, Bedrock, Cost Explorer, CloudWatch, AWS Budget, OPA/Rego, OpenTelemetry, MCP tools, Terraform, and GitHub Actions CI.
- Added governance workflows for incident triage, access requests, tickets, and cost review with redaction, quotas, approval gates, trusted-source grounding, request replay, audit export, Playwright smoke tests, OPA tests, MCP smoke tests, and manual AWS deploy evidence.

## PROFESSIONAL EXPERIENCE

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### Founder / Automation & Systems Lead - Clearpath Property Group / Boston Probate Solutions

Dec 2016 - Present | Atlanta Metropolitan Area

- Owned acquisition and operations workflows across lead intake, public-records research, market data, CRM integration, seller communication, and technical automation.
- Automated county-record and property-document research with Python ingestion workflows that scraped, normalized, aggregated, and exported structured data for acquisition analysis.
- Improved lead qualification and follow-up consistency with webhook-driven CRM/API workflows, AI prompt orchestration, voice AI guardrails, intent capture, transcript summaries, and structured data handoff.
- Translated real business workflow requirements into the public Clearpath Fargate API project, documenting architecture, tests, AWS validation artifacts, and teardown workflow.

### Creative Director / Operations - Aiden Rhaa Photography / Visual Impact Studios

Oct 2010 - Present | Atlanta Metropolitan Area

- Managed client-facing web properties and lightweight infrastructure, including DNS, SSL/TLS, Cloudflare, hosting, GitHub-based deployments, Supabase/Netlify workflows, cPanel, SFTP/SSH, and WordPress administration.
- Delivered 200+ client projects over 15 years while coordinating contractors, vendors, timelines, budgets, technical execution, and high-touch client communication.
- Built and maintained static/CMS websites focused on performance, SEO, image optimization, mobile responsiveness, and low operating cost.

### Multimedia Producer / Technical Workflow Lead - ProMedia Productions

May 2009 - Dec 2016 | Boston, MA

- Managed full project lifecycle for audio and video production projects across small business, corporate, and education clients.
- Automated repetitive media-file sorting and renaming with a macOS Automator workflow using structured naming conventions.
- Designed custom recording studio configurations including acoustic treatment planning, noise reduction analysis, and equipment layout.

## ADDITIONAL CLOUD PROJECTS

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### Super Transcriber API - Serverless Transcription API Product

GitHub: [github.com/manynames3/super-transcriber-api](https://github.com/manynames3/super-transcriber-api) | Live Demo: [super-transcriber-api.pages.dev](https://super-transcriber-api.pages.dev)

- Built a developer-facing transcription API with API Gateway HTTP API, Node.js Lambda, SQS workers, EventBridge completion, DynamoDB job/usage records, private S3 uploads, hashed API-key auth, webhooks, OpenAPI, TypeScript SDK, Terraform, Checkov, CodeQL, and live API health.

### Pulpit - Live Serverless Bedrock RAG Application

GitHub: [github.com/manynames3/pulpit](https://github.com/manynames3/pulpit) | Live Demo: [pulpit.pages.dev/](https://pulpit.pages.dev/)

- Built a live Korean-English sermon search application using Bedrock Claude Haiku/Nova/Titan, Lambda, API Gateway, Cognito, DynamoDB cache/audit logs, S3-backed hybrid retrieval index, Terraform, Cloudflare Pages, GitHub Actions, cited answers, Guardrails, and documented retrieval-quality iterations.

### Pulpit V2 - Validated EKS/GitOps Platform

GitHub: [github.com/manynames3/pulpit-v2](https://github.com/manynames3/pulpit-v2) | Live Demo: [pulpit-v2.pages.dev/](https://pulpit-v2.pages.dev/)

- Validated an EKS/GitOps platform deployment with Terraform, ECR, Helm, ArgoCD app-of-apps, tenant namespaces, External Secrets backed by SSM, Prometheus, Grafana, tenant ALB ingress, Cloudflare integration, runtime evidence, and teardown artifacts.

### PhotoScribe AI - Governed Serverless Media Search

GitHub: [github.com/manynames3/photoscribe-ai](https://github.com/manynames3/photoscribe-ai) | Live Demo: [photoscribe-ai.pages.dev/](https://photoscribe-ai.pages.dev/)

- Built a serverless media search platform with React/TypeScript, Terraform, Lambda, API Gateway, private S3, S3 Vectors, Bedrock Nova/Titan, DynamoDB policy/audit tables, Cognito, SQS DLQ, CloudWatch alarms, and cost documentation.

### GrantStack - Event-Driven AWS Incentive Intelligence

GitHub: [github.com/manynames3/grantstack](https://github.com/manynames3/grantstack) | Live Demo: [grantstack.pages.dev](https://grantstack.pages.dev/)

- Built a live AWS serverless product for facility incentive diligence using API Gateway, Lambda, SQS/DLQ, DynamoDB, S3 source catalog, EventBridge source refresh, CloudWatch/X-Ray, Terraform, and private tokenized reports.

### QueueWatch - Serverless Grid Capacity Data Pipeline

GitHub: [github.com/manynames3/queuewatch](https://github.com/manynames3/queuewatch) | Live Demo: [queuewatch.pages.dev](https://queuewatch.pages.dev/)

- Built an AWS serverless data pipeline monitoring 8 public ISO/RTO queue sources and normalizing 15,800 project rows into 175 source-backed capacity signals using Lambda, DynamoDB, S3 snapshots/reports, Bedrock/Texttract fallback, CloudWatch alarms, DLQs, and Terraform.

## EDUCATION

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Berklee College of Music - Music / Songwriting, 2008-2011

Saint Louis University - Engineering Physics, 2006-2008