

Project Portfolio

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This document presents four flagship DevOps engineering projects delivered across diverse industry verticals — finance, healthcare, education, and life sciences. Each engagement demonstrates a commitment to secure, scalable, and observable cloud-native infrastructure.

4	Cloud Platforms	AWS · OpenShift · EKS
3	IaC Tools Used	Terraform · Ansible · CDK
5+	CI/CD Pipelines	Jenkins · CodePipeline · ArgoCD
100%	Uptime Target	Load-balanced & auto-scaled

PROJECT 1 · NRTAX — U.S. NRI TAX PLATFORM

- Client Type:** FinTech / Tax Services
- Strategy:** Greenfield · Secure Modular Design
- Designed and deployed secure, modular infrastructure for a U.S.-based NRI tax solution, ensuring strict data isolation between client accounts.
 - Implemented internal load balancing with configurable routing policies to securely separate the business logic layer from the public-facing tier.
 - Configured auto-scaling groups to absorb peak tax-season traffic without manual intervention, maintaining consistent response times.
 - Enforced least-privilege IAM policies and VPC segmentation to meet U.S. financial data compliance requirements.

AWS	VPC	Auto Scaling	Load Balancer	IAM	Terraform	FinTech Compliance
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PROJECT 2 · MOM HEALTHCARE — CLOUD MIGRATION

- Client Type:** Healthcare / Clinical Platform
- Strategy:** Full Rebuild · Hazna Cloud → AWS
- Architected and executed a full Rebuild migration of a large-scale healthcare platform from Hazna Cloud to AWS, minimising data loss risk.

- Managed all infrastructure as code with Terraform; deployed the frontend via Amazon S3 with CloudFront as a global CDN for low-latency access.
- Implemented real-time infrastructure monitoring using Zabbix and Grafana dashboards, enabling proactive alerting and SLA tracking.
- Integrated ClamAV for automated malware scanning of user-uploaded documents, reinforcing HIPAA-aligned security controls.

AWS	S3	CloudFront	Terraform	Grafana	Zabbix	ClamAV	HIPAA
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PROJECT 3 · EDUCATION APP — MICROSERVICES PLATFORM

Client Type: EdTech / E-Learning

Strategy: Cloud-Native · OpenShift on AWS EKS

- Built a microservices-based education platform on OpenShift over AWS EKS, supporting thousands of concurrent learners across multiple regions.
- Designed multi-environment pipelines (DEV → UAT → Pre-Prod → Prod) with environment-specific configuration management and promotion gates.
- Automated deployments using Jenkins and Ansible playbooks, reducing release cycle time and eliminating manual handoff errors.
- Implemented Grafana Loki for centralised log aggregation and observability, cutting mean-time-to-detect incidents significantly.
- Self-hosted a Harbor container registry for secure, auditable image management, enforcing image signing and vulnerability scanning before promotion.

OpenShift	AWS EKS	Jenkins	Ansible	Grafana Loki	Harbor	Kubernetes
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PROJECT 4 · ROCHE — PROPERTY MANAGEMENT MIGRATION

Client Type: Life Sciences / Enterprise

Strategy: Lift-and-Shift · On-Prem OpenShift → AWS EKS

- Led a Lift-and-Shift migration of an enterprise property management solution from on-premises OpenShift to AWS EKS with zero unplanned downtime.
- Used AWS Database Migration Service (DMS) for continuous replication and seamless cutover, ensuring data integrity throughout the migration window.
- Managed all infrastructure as code through Terraform, enabling reproducible environment builds and drift detection post-migration.
- Implemented AWS CodePipeline for end-to-end continuous delivery, integrating automated testing gates and approval stages aligned with Roche change-management processes.

AWS EKS	AWS DMS	Terraform	CodePipeline	OpenShift	CI/CD	Enterprise
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All projects were delivered with infrastructure-as-code discipline, automated CI/CD pipelines, and production-grade observability stacks — reflecting an engineering-first approach to cloud operations.