

SR PLATFORM ENGINEER

Nicholas Liszewski

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PROFILE

Platform Engineer bridging cloud-native and AI/HPC computing. Engineers clear abstractions that reduce cognitive load for developers and researchers, enabling scalable, secure application development/deployment.

EXPERIENCE

SR PLATFORM ENGINEER, SEISMOS; REMOTE – 2025-PRESENT

AI Platform Enhancement: Enhanced our Kubernetes platform to be AI-ready for multi-tenant GPU orchestration and scheduling, enabling seamless training and inference workloads.

Automated Configuration: Engineered an Ansible + Vault pipeline to securely configure field laptops, reducing provisioning time from 1-10 hours to minutes.

Multi-Region, Multi-Tenancy: Architected Kubernetes clusters extensible across regions and isolated by tenant, with dedicated control-plane clusters for Vault, Argo CD, and Cilium.

On-Call Institution: Established a centralized ticketing workflow with defined SLAs and automated triage rules.

Performant Pipelines: Optimized CI pipelines with layer caching and parallelism to accelerate build times.

Secure Access Anywhere: Designed and implemented a Tailscale VPN fabric to enhance secure, global access to internal services.

Single Pane of Glass: Centralized distributed telemetry sources (logs, metrics, traces) into Grafana Cloud, integrating custom and pre-built dashboards to track service availability and KPIs.

SOC2 Compliant: Implemented SOC2 compliance at the infrastructure layer by developing secure, reusable Terraform modules that established a compliant-by-default golden path for service provisioning.

Stability Lead: Raised service availability from ~50% to >99.9% by engineering release guardrails (CI merge-gates, build checks) that insulated production systems from application-layer contract violations.

VM Factory: Standardized VM image creation with Packer in a cloud-agnostic approach, increasing transparency and reusability.

SOFTWARE ENGINEER, SEISMOS; REMOTE – 2022-2025

Dashboard Development: Developed a custom dashboard application with React and Flask to visualize time-series data at massive scale.

Early Infrastructure: Designed and deployed Seismos's initial AWS cloud platform with ECS backends and S3/CloudFront frontends.

AWARDS

Golden Kubestronaut - CNCF recognition for completing 14 curated certifications spanning Kubernetes, Linux, and the cloud-native ecosystem.

ACTIVE CERTIFICATIONS

AWS - Solutions Architect Pro (SAP), DevOps Engineer Pro (DOP)

Azure - Solutions Architect Expert, Administrator Associate

CNCF/Linux Foundation - Certified Kubernetes Administrator (CKA), Certified Kubernetes Security Specialist (CKS), Certified Kubernetes Application Developer (CKAD), Linux Foundation Certified Systems Administrator (LFCS), Certified Argo Projects Associate (CAPA), Certified Backstage Associate (CBA), Certified Cilium Associate (CCA), Certified GitOps Associate (CGOA), Istio Certified Associate (ICA), Kyverno Certified Associate (KCA), OpenTelemetry Certified Associate (OTCA), Prometheus (PCA)

Google Cloud - Professional Cloud Architect (PCA)

HashiCorp - Consul Associate, TerraForm Associate + Pro, Vault Associate + Pro

Nvidia - AI Infrastructure Pro (NCP-AII), AI Operations Pro (NCP-AIO), AI Networking Pro (NCP-AIN), AI Infrastructure & Operations Associate (NCA-AIIO)

SKILLS/TOOLING (SELECTED)

AI/HPC (Base Command Manager, BlueField, InfiniBand, MIG, RoCE, Run:AI, SMI, Slurm, Triton Inference Server)

CI/CD (Argo CD, Argo Rollouts, Circle CI, AWS CodePipeline, Tekton)

Cloud Service Providers (AWS, Azure, Google Cloud, Lambda)

Configuration-as-Code (Ansible)

Container Orchestration (ECS, EKS/AKS/GKE/Bare-Metal-Kubernetes, Helm, Kustomize)

Diagrams-as-Code (Structurizr)

Imperative Languages (Go, JavaScript, Python, TypeScript)

Infrastructure-as-Code (TerraForm/OpenTofu, CloudFormation, Bicep, Packer)

Networking (Cilium, VLAN, VXLAN)

Observability (Alloy, Grafana, Loki, OpenTelemetry, Tempo)

Policy-as-Code (Kyverno, Checkov, TFLint)

Secrets Management (AWS Secrets Manager, HashiCorp Vault)

Serverless/DAG (Lambda, Argo Workflows, AWS Step Functions)

VPN (TailScale)

EDUCATION

University of California, San Diego – B.A. Economics, 2020

Cum Laude, Highest Honors in Economics