

Kevin Shokri

DevOps / Platform Engineer | AWS, Containers, Terraform, CI/CD, Observability
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SUMMARY

Infrastructure engineer who builds and runs the systems, not just the slides. AWS Certified Solutions Architect - Professional with production experience across AWS and Azure, containerized workloads, infrastructure as code with Terraform and AWS CDK, and full metrics/logs/traces observability. Ran 24/7 on-call and root-cause analysis for Comcast, Rogers, and Cox platforms, and currently maintains a self-hosted Linux platform of 13 containerized services with an OpenTelemetry pipeline. Automates in Python and Bash, documents what breaks, and fixes it permanently.

TECHNICAL SKILLS

Containers & Orchestration: Docker, Docker Compose, Amazon ECS, container networking and image management

Infrastructure as Code: Terraform, AWS CDK, CloudFormation, Ansible, reproducible environment builds, remote state and modular stacks

CI/CD & Automation: GitHub Actions, AWS CodePipeline, Jenkins, Git workflows, automated build/test/deploy, release validation tooling in Python and Bash

Cloud: AWS (EC2, ECS, Lambda, S3, RDS, CloudFront, ALB, IAM, API Gateway, CloudWatch, X-Ray, WAF), Azure, serverless and multi-cloud architecture, cost optimization

Observability & Reliability: Prometheus, Grafana, OpenTelemetry Collector, CloudWatch, ntopng, cAdvisor, Node Exporter, AppOptics, Papertrail, SLOs, alerting, 24/7 on-call, incident response, root-cause analysis, postmortems and runbooks

Linux & Networking: Ubuntu, CentOS, Solaris, Bash, Python, Nginx, HAProxy, F5, TLS/SSL, DNS, TCP/UDP, SNMP, BGP/MPLS, Wireshark and tcpdump

Security & Compliance: IAM and least-privilege design, MDM, secrets and certificate management, PCI-DSS and HIPAA-aligned environments, disaster recovery and business continuity

INFRASTRUCTURE PROJECTS

GitHub: github.com/digitalShokri

Homelab Observability Platform (homelab_v2) - Ubuntu, Docker Compose, OpenTelemetry

- Designed and operate a 13-service platform on Ubuntu using modular Docker Compose, including Prometheus, Loki, Promtail, Grafana, an OpenTelemetry Collector, ntopng, cAdvisor, Node Exporter, and a GPU exporter.
- Built an OpenTelemetry Collector pipeline that receives OTLP, host, Docker, and Prometheus telemetry, enriches it with resource attributes, and exports metrics to Prometheus (15-day retention) and logs to Loki (30-day retention).
- Secured the platform with Nginx Proxy Manager and TLS, restricted the host firewall to SSH, HTTP, and HTTPS, and documented setup, architecture, and troubleshooting for repeatable rebuilds.

Voice-Controlled Rover (ESP-Rover) - AWS serverless, Terraform, embedded Linux/Arduino

- Provisioned a full serverless backend with Terraform (API Gateway, Lambda in Python, S3, IAM, CloudWatch, X-Ray) with scoped IAM permissions, 7-day object lifecycle on audio, and 14-day log retention.
- Wrote embedded firmware exposing an HTTPS web server and REST control API with persistent configuration and a 2-second motor watchdog, integrated with Amazon Transcribe for roughly 3-second command turnaround.

HikePlanner Deployment - AWS CDK, ECS, CloudFront, RDS

- Deployed a Node.js/TypeScript application to AWS with CDK, provisioning ECS services, an Application Load Balancer, CloudFront, and RDS, then instrumented it with Prometheus, Grafana, Loki, and Tempo for metrics, logs, and traces.

PROFESSIONAL EXPERIENCE

TrendSense AI | AI Program Manager

Feb 2026 - Present

- Deployed production AI agents on the Anthropic API, cutting a 90-day planning cycle to 65 days, and instrumented agent runs with tracing to isolate failures and latency.
- Raised output accuracy 23% over 12 iterations by analyzing traced runs and tightening prompts, evaluation criteria, and guardrails.

Career Break - full-time family caregiving

May 2025 - Feb 2026

Brierley & Partners (Capillary Technologies) | Solutions Architect

Sept 2024 - Apr 2025

- Built custom data ingestion pipelines and API integrations on a Databricks-based cloud platform for enterprise clients.
- Led a 15-person cross-functional delivery team and contributed to architecture governance, standards, and compliance practices.

Digital Unicorn, LLC | Founder & Infrastructure Engineer

Aug 2021 - Oct 2024

- Owned all infrastructure for a 26-user healthcare practice at 99.9% uptime: Cisco Meraki networking, Azure services, 8x8 VoIP, endpoint management, and backups.
- Cut business-hours outages 20% year over year by adding proactive monitoring and alerting and moving disruptive work into scheduled maintenance windows.
- Implemented and tested disaster recovery and business continuity plans, plus MDM and access controls, passing HIPAA-aligned reviews with zero findings.

Amazon Web Services (AWS) | Solutions Architect

Mar 2019 - Oct 2020

- Reduced customer AWS spend an average of 15% across 50+ enterprise accounts through architecture reviews covering right-sizing, storage lifecycle, and workload placement.
- Designed and built proof-of-concept environments on containers, serverless, and IoT, converting 12 of 18 into production workloads.
- Advised on IAM, SAML, MFA, Control Tower, and infrastructure as code, and designed CloudWatch and X-Ray monitoring and tracing for customer microservices platforms.
- Fed customer requirements on DevOps, ML workflows, and serverless design back to AWS service teams.

DoubleHorn, Inc. | Sales Engineer, Multi-Cloud

Jul 2018 - Feb 2019

- Ran cloud migration assessments across AWS, Azure, and GCP, mapping workloads and non-functional requirements to target architectures.

SolarWinds Worldwide, LLC | Senior Sales Engineer

Oct 2015 - Sept 2017

- Supported an infrastructure and application monitoring portfolio (Librato metrics, Traceview APM and tracing, Pingdom, Papertrail logs) for DevOps and operations teams, running evaluations in customer environments.
- Built and maintained reusable demo and test environments on AWS through HTTP APIs, cutting setup time 25%.

iControl Networks (now Comcast Xfinity Home) | Systems Engineer

Jun 2014 - Oct 2015

- Carried 24/7 on-call for Severity 1 incidents across Comcast, Rogers, and Cox deployments, resolving 18 with root-cause analysis and permanent corrective action.
- Automated environment and configuration validation with a Python and Bash audit tool, cutting upgrade validation time 33%.
- Closed the gap between development and production with runbooks, deployment scripting, and infrastructure testing across WebLogic, Oracle, Apache, F5, HAProxy, and Ansible.

Netscout (formerly Tektronix Communications) | System Design Engineer III

Feb 2008 - Apr 2013

- Maintained a worldwide Solaris and Linux lab on VMware with Cisco, Netgear, and MikroTik hardware, supporting validation and demonstration of a carrier network monitoring platform.
- Diagnosed network and application faults through packet capture and message-flow analysis across TCP/UDP, SIP, DNS, SNMP, and HTTP.

Securus Technologies (formerly T-Netix) | Senior Network Operations Engineer

Mar 2002 - Feb 2008

- Ran 24/7 monitoring and Level 2 incident response for 200+ servers, 1,500 remote sites, and 2 datacenters, sustaining 99.9% availability.
- Standardized platform installation and configuration procedures and trained support staff, reducing repeat escalations.

CERTIFICATIONS

AWS Certified Solutions Architect - Professional | AWS Certified Developer - Associate | AWS Certified SysOps Administrator - Associate

AI Training (Anthropic): Claude Code in Action | Introduction to Model Context Protocol | Claude with the Anthropic API

EDUCATION

University of Texas at Dallas - Bachelor of Arts, Arts & Technology | Richardson, TX