

Ian Hundere

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Summary

- Lead DevOps Engineer with 7+ years of experience architecting and implementing scalable, resilient cloud solutions on AWS and Kubernetes. Expert in Infrastructure as Code (Terraform), CI/CD modernization (GitHub Actions), and enterprise-grade observability (Datadog, Prometheus).
- Specialist in software supply chain security, having designed and deployed private k8s Sigstore stacks to automate governance and compliance, as well as contributing extensively to the Sigstore open-source project.
- Former educator with a passion for mentoring engineers, equally adept at driving technical strategy as a senior contributor and developing talent as a people leader.

Technical Skills

Cloud Platforms & Architecture: AWS (EKS, ECS, EC2, S3, RDS, Lambda, VPC, IAM, CloudFormation, KMS, ECR, Route 53), Kubernetes, Docker

Infrastructure as Code & Automation: Terraform (HCL), Ansible, Packer, Vagrant

CI/CD & Version Control: GitHub Actions, GitLab CI, CircleCI, Jenkins, Git, Helm, FluxCD, Argo CD, YAML

Monitoring & Observability: Datadog, Prometheus, Grafana, Sumo Logic, Zabbix, Fluent Bit, OpenSearch, CloudWatch

Security & Identity Management: Sigstore, OPA, Vault, Consul, Falco, IAM, OIDC, AWS WAF, Network Policies, SAST, DAST, SCA, SAML, LDAP

Databases & Storage: PostgreSQL, MySQL, S3, Glacier, DynamoDB, MongoDB

Operating Systems & Networking: Linux (Administration, Shell Scripting, Performance Tuning), NGINX, ELB

Programming Languages: Python, Go, Bash, Node.js, Rego

Experience

Lead DevOps Engineer | Latrio | Remote

August 2024 – Present

- Achieved SLSA Build Level 3 by designing and implementing GitHub Artifact Attestations via reusable workflows (closing many of its inherent gaps/shortcomings) to generate and verify software attestations against the automated governance framework.
- Architected an end-to-end automated governance system to secure the software supply chain, integrating a custom cloud/environment agnostic tool (autogov-verify) to verify cryptographically-signed attestations and validate their metadata using Rego policy to enable deployment gating.
- Developed a production-ready Go CLI (autogov-verify) using Sigstore libraries to automate the verification/validation of SLSA Verification Summary Attestations (VSAs; source of truth for other attestations such as build provenance, SBOMs, dependency vulnerabilities etc) to enforce compliance via an integrated OPA engine.
- Mentored and guided senior and junior engineers on technical growth and best-practice patterns, fostering a collaborative culture of knowledge sharing and continuous improvement.

Senior DevOps Engineer | Latrio | Remote

March 2023 – August 2024

- Designed, built, and deployed private Sigstore stacks from conception to production, achieving SLSA Build Level 2+ compliance and securing the software supply chain.
- Engineered a serverless provenance system using AWS Lambda and OpenSearch, processing millions of attestations monthly and delivering real-time visualization for supply chain security analysis across departments.
- Reduced security management overhead by 20-30% through the automation of certificate management for Sigstore components (Fulcio/TSA).
- Improved EKS cluster reliability by an estimated 20% by systematically troubleshooting complex issues related to network policies and persistent storage.
- Architected and automated a comprehensive observability stack (Prometheus, Grafana, Fluent Bit), from provisioning to alerting, reducing downtime by 30-40% through proactive incident response.
- Contributed significantly to the Sigstore Open Source Community (Rekor, Secure Systems Library), enhancing tool functionality and security.

Senior DevOps Engineer | Oddball, Veteran Affairs, Veteran Services Platform, Identity | Remote

April 2022 – March 2023

- Cultivated the DevOps Community of Practice (20+ engineers) by establishing best practices, facilitating technical discussions, and mentoring junior engineers to accelerate technical growth and team effectiveness.
- Engineered a real-time Terraform drift detection system for AWS GovCloud using Slack's Block Kit and Bash, providing detailed, formatted alerts to prevent unauthorized infrastructure changes and ensure continuous compliance.
- Enhanced system observability and reduced alert fatigue by implementing intelligent log filtering (Datadog, Helm for EKS) and developing custom Datadog dashboards with Terraform state parity automation.
- Modernized CI/CD infrastructure by successfully migrating legacy Jenkins jobs to GitHub Actions, reducing average build times from 20 minutes to 13 minutes.
- Improved application scalability and reduced downtime by 50% through the containerization and migration of a legacy Ruby application to a microservices architecture.
- Strengthened security posture by designing and enforcing custom IAM permission boundaries, preventing privilege escalation and satisfying stringent FedRAMP compliance requirements for AWS GovCloud.

Cloud Operations Engineer | Revel Systems | Atlanta, GA**November 2020 – April 2022**

- Accelerated developer velocity by designing and implementing modular Terraform infrastructure for deploying comprehensive monitoring solutions (Datadog provider) across EKS, ECS, EC2, and RDS environments.
- Developed an enterprise-grade RDS management CLI tool (Bash), adopted by 100+ internal users, automating PCI-compliant RDS access via IAM authentication, and improving database security.
- Rebuilt and fortified the GitLab Runner EKS cluster using full Infrastructure as Code, drastically reducing recovery time by 60% and ensuring business continuity.
- Increased developer efficiency by creating reusable Terraform modules and CI/CD pipeline templates, saving significant development hours.
- Mentored junior engineers through technical design reviews, incident response guidance, and proactive coaching.

DevOps Engineer | Artis Technologies | Atlanta, GA**February 2020 – November 2020**

- Managed multi-environment EKS clusters supporting 5 distinct credit decisioning services, consistently achieving 99.9% uptime.
- Reduced deployment times from 18 minutes to 5 minutes through comprehensive CI/CD pipeline (CircleCI) and integration test optimization.
- Enhanced threat detection and incident response capabilities by implementing a multi-tool monitoring stack (Datadog, Falco), leading to a proactive approach to system security.
- Engineered automated security controls, including dynamic security group rules for CircleCI runners, to protect AWS resources.
- Resolved critical AWS WAF integration challenges with Twilio by implementing custom rules to allow legitimate traffic, preventing service disruptions.

Software Engineer, DevOps and Training Platforms | Itential | Atlanta, GA**January 2019 – February 2020**

- Cut infrastructure costs by 20% and reduced learning environment setup time by 30% by fully automating the provisioning and cleanup process with Ansible and Docker.
- Developed RESTful APIs (Express.js, Puppeteer) to automate student enrollment and platform management tasks.
- Implemented Zabbix and Grafana for real-time alerting (Slack integration) supporting 24/7 training operations.

Open Source Contributions

Sigstore (Software Supply Chain Security Project)

- **cosign** (5.4k+ GitHub stars): Added TSA certificate chain check for environment variables and TUF targets
- **rekor** (1k+ GitHub stars): Integrated Redis authentication for improved performance and security
- **fulcio** (765+ GitHub stars): Developed cert-util app to simplify the certificate creation process for compliance with Fulcio's standards and other certificate standards found throughout the Sigstore ecosystem and Extended functionality by adding support for reusing existing root/intermediate certs when issuing new leaf certs
- **sigstore** (490+ GitHub stars): Implemented TSA URI for custom metadata to resolve cosign verification errors
- **timestamp-authority** (100+ GitHub stars): Added cert-util templates and documentation per RFC3161 standards
- **helm-charts** (80+ GitHub stars): Added CronJob support for copySecretJob, enhanced TSA certificate handling and optimized scheduling across Sigstore charts
- **scaffolding** (65+ GitHub stars): Fixed TSA cert-chain split function to avoid downstream errors

Secure Systems Lab (used throughout the in-toto framework/project)

- **securesystemslib** (50+ GitHub stars): Added AWS KMS signing support and refactored it for better flexibility / security

Education

Full-Stack Web Development | DigitalCrafts | Atlanta, GA**September 2018 – January 2019****Master in Education | Texas State University | San Marcos, TX****August 2010 – December 2012****B.A. in History | University of Victoria | Victoria, British Columbia, Canada****September 2002 – August 2007**

Earlier Career Highlights

Instructional Coach in Academic Technology | NISD | San Antonio, TX**July 2016 – June 2018**

- Partnered with school administration to develop and implement technology integration training for thousands of educators across 7 campuses, resulting in measurably improved instructional efficacy.

Teacher, 4th and 5th grade | PISD | Austin, TX**August 2013 – June 2016**

- Developed and implemented data-driven strategies to improve student performance, achieving measurable outcomes.
- Guided at-risk students in achieving significant year-end progress in social, emotional, and academic growth.
- Mentored colleagues to effectively integrate emerging educational technologies into their teaching practices.

Product Specialist Support | Apple Inc. | Austin, TX**September 2007 – August 2012**

- Resolved complex technical issues, achieving a 95% satisfaction rate, and developed training programs for enterprise clients.