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 | Liatrio | 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 | Liatrio | 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.

- 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 PCIcompliant 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 CircleCl 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 (5.3k+ 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** (755+ GitHub stars): <u>Developed cert-utility app to simplify the certificate creation process for compliance with</u> Fulcio's standards and other certificate standards found throuough the Sigstore ecosystem
- sigstore (490+ GitHub stars): Implemented TSA URI for custom metadata to resolve cosign verification errors
- timestamp-authority (100+ GitHub stars): Added cert-utility templates and documentation per RFC3161 standards
- **helm-charts** (80+ GitHub stars): <u>Added CronJob support for copySecretJob</u>, <u>enhanced TSA certificate handling</u> and <u>optimized scheduling across Sigstore charts</u>
- 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 (45+ GitHub stars): Added AWS KMS signing support and refactored it for better flexibility / security

Education

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