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 Sigstore stacks to achieve SLSA compliance and contributing extensively to the Sigstore open-source project.
- Former educator with a passion for mentoring engineers and fostering a culture of continuous improvement.

Technical Skills

Cloud Platforms & Architecture: AWS (EKS, EC2, S3, RDS, Lambda, VPC, IAM, CloudFormation), Kubernetes, Docker
Infrastructure as Code & Automation: Terraform, Ansible, Python, Bash, Packer, Vagrant
CI/CD & Version Control: GitHub Actions, GitLab CI, CircleCI, Jenkins, Git, Helm, FluxCD, Argo CD
Monitoring & Observability: Datadog, Prometheus, Grafana, Sumo Logic, Zabbix, Fluent Bit, OpenSearch, CloudWatch
Security & Identity Management: Sigstore, Vault, Consul, IAM, OIDC, AWS WAF, Network Policies, 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

Experience

Lead DevOps Engineer | Liatrio | Remote   *August 2024 – Present*

- Oversee Automated Governance initiatives, defining technical direction and strategy to enhance security and compliance across cloud environments.
- Led the initiative to achieve SLSA Build Level 3 by architecting and implementing custom reusable GitHub workflows, bridging critical gaps in GitHub's Artifact Attestations through meticulous analysis of SLSA requirements with minimal infrastructure overhead.
- Drive the evolution of the internal platform, focusing on improving developer experience, efficiency, and adoption of best-practice patterns and tools.
- Mentor and guide senior and junior engineers, fostering technical growth, knowledge sharing, and a collaborative team culture.

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 significantly improving software supply chain security and artifact immutability.
- 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*

- Led and cultivated the DevOps Community of Practice for 20+ engineers, establishing best practices, facilitating technical discussions and presentations, 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.
- Strengthened security posture by designing / enforcing custom IAM permission boundaries.
- 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.

Cloud Operations Engineer | Revel Systems | Atlanta, GA / Remote   *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 and manageability.
- Authored Ansible playbooks to automate RDS IAM authentication and instance seeding, reducing manual configuration efforts.
- 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 / Remote   *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.
- Implemented / maintained robust monitoring and security solutions using Datadog, New Relic, Sumo Logic, and Falco.
- 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*
- Reduced learning environment setup time by 30% through Ansible and Docker automation.
- 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.
- Automated resource cleanup processes using Ansible, Docker, Node.js, and MongoDB, reducing infrastructure costs by an estimated 20%.

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)*: Developed cert-utility app to simplify the certificate creation process for compliance with 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)**:** *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** (45+ 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*
- Designed and delivered technology integration training to thousands of educators across 7 campuses, measurably improving 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.