

Ian Hundere

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“perpetually taking an open book test while having fun”

Summary

A passionate educator turned problem solver with extensive experience in cloud infrastructure, DevOps, and software development. I leverage my educational background to foster clear communication and collaboration while tackling complex technical challenges. Skilled in building integrated solutions with AWS, Kubernetes, Terraform, and CI/CD pipelines. Proficient in scripting with Python, Bash, and Go to automate processes, reduce manual tasks, and improve system efficiency. I manage a variety of self-hosted applications (e.g., Ninjam, Filebrowser, UniFi Controller) on a 5-node K3s cluster, deepening my hands-on experience with cloud infrastructure and automation. Always eager to tackle new challenges and committed to continuous learning and growth in the ever-evolving tech landscape.

Skills

AWS, Kubernetes, Terraform, Docker, Packer, Vagrant, Ansible, Python, Bash, Go, GitHub Actions, GitLab CI, CircleCI, Jenkins, Helm, Git, Flux, Argo CD, Datadog, New Relic, Prometheus, Grafana, Zabbix, Sumo Logic, Vault, Consul, Sigstore, OIDC, PostgreSQL, RDS, S3, DynamoDB, MongoDB, Linux (system administration, shell scripting, performance tuning)

Experience

Senior DevOps Engineer | Liatris | Remote

March 2023 – Present

- Deployed and managed private Sigstore stacks, enhancing security and immutability of build artifacts, incorporating pipeline attestations from development to production
- Achieved SLSA Build Level 3 by integrating GitHub Artifact Attestations for build provenance, securing the software supply chain with minimal infrastructure across multiple projects
- Automated the generation of Certificate Authorities (CAs) and intermediate certificates for Sigstore deployments, reducing manual security management by 30%
- Implemented AWS Lambda to capture attestations/visualize them in OpenSearch for streamlined provenance analysis
- Troubleshoot EKS-related issues, including network policies and persistent storage, improving cluster reliability by 25%
- Designed and implemented observability solutions with Prometheus, Grafana and Fluent Bit for robust monitoring resulting in a 40% reduction in system downtime through proactive monitoring
- Led the migration from legacy pipeline tools to more scalable, efficient alternatives

DevOps Engineer II | Oddball | Remote

April 2022 – March 2023

- Led the DevOps Community of Practice, mentoring junior engineers and sharing best practices across the team
- Developed a Slack-based Terraform drift detection system to alert on infrastructure changes, ensuring real-time visibility into AWS GovCloud resource
- Applied log processing and regex to filter noisy logs, improving the monitoring of Kubernetes pods and infrastructure
- Built and maintained Datadog dashboards / synthetic tests, using Bash to ensure Terraform state parity
- Created custom IAM permission boundaries to prevent privilege escalation and limit the scope of IAM users and roles
- Migrated legacy Jenkins jobs to GitHub Actions, reducing build times and improving pipeline maintainability
- Shifted a Ruby-based sign-in service to a microservice through containerization, improving resiliency and scalability

Cloud Infrastructure Engineer II | Revel Systems | Atlanta, GA

November 2020 – April 2022

- Led efforts to improve developer velocity by bundling monitoring with deployments (EKS, ECS, EC2, RDS) using custom Terraform modules and the Datadog provider
- Developed a modular CLI Bash script for the Infrastructure team to manage RDS access, including IAM authentication, schema, user and query management, streamlining IAM auth and environment access
- Built Ansible playbooks to enable RDS IAM authentication and automate user/role management
- Rebuilt and automated the GitLab Runner EKS cluster, improving IaC, availability and disaster recovery
- Streamlined Terraform management by separating resources into multiple repositories and handling tfstate file imports
- Increased developer productivity by creating reusable Terraform modules and CI/CD pipeline templates
- Mentored junior engineers through check-ins, postmortems and coaching

DevOps Engineer | Artis Technologies, LLC | Atlanta, GA

February 2020 – November 2020

- Managed and optimized EKS clusters for multiple deployments, improving resource utilization and uptime
- Automated routine tasks using Bash scripts, AWS Lambda and Kubernetes CronJobs
- Enhanced monitoring and security by configuring tools such as Datadog, New Relic and Sumo Logic
- Implemented CI/CD pipelines with CircleCI and optimized pipeline performance, reducing deployment times by 60%, leading to faster release cycles
- Automated security group rule creation for CircleCI runner ingress connectivity to AWS resources
- Developed custom AWS WAF rules to resolve integration issues with Twilio IPs hosted on AWS, allowing for uninterrupted traffic flow

Software Engineer, DevOps & Training Platforms | Itential, LLC | Atlanta, GA

January 2019 – February 2020

- Configured and automated Itential's learning environment using Ansible and Docker for internal/external users

- Automated Itential's learning environment setup using Ansible and Docker, improving deployment times by 30%
- Developed RESTful APIs using Express.js and Puppeteer to automate CRUD operations, enhancing efficiency
- Deployed and configured monitoring tools (openLDAP, Netbox, Zabbix, Grafana) for improved visibility/system mgmt
- Automated container and inventory cleanup processes using Ansible, Docker, Node.js and MongoDB
- Contributed to agile development sprints, ensuring timely delivery of features

Academic Technology Coach | Northside Independent School District | San Antonio, TX July 2016 – June 2018

- Delivered professional development programs to enhance technology integration across 7 campuses
- Collaborated with administrators to ensure technology investments supported educational goals
- Led decisions regarding instructional technology acquisition and deployment to support student engagement and academic rigor

Teacher, 4th and 5th grade | Pflugerville Independent School District | Austin, TX August 2013 – June 2016

- Developed training resources and strategies to address various learning styles, fostering academic growth
- Assisted in coordinating weekly staff meetings, demonstrating strong teamwork ethic

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

- Provided technical support for businesses, improving product integration and usage
- Led training sessions for third-party clients, ensuring a deep understanding of Apple products
- Created and maintained training resources to certify 3rd-party clients

Open Source Contributions

Significant contributor to open-source projects, enhancing security, performance, and functionality for widely used tools.

Sigstore

- **cosign:** Added TSA certificate chain check for environment variables and TUF targets
- **rekor:** Integrated Redis authentication for better security and performance
- **sigstore:** Implemented TSA URI for custom metadata to resolve cosign verification errors related to timestamps
- **scaffolding:** Fixed TSA cert-chain split function to avoid downstream errors
- **helm-charts:** Improved resiliency by adding CronJob support for copySecretJob, enhanced certificate handling with TSA cert-chain support and optimized scalability/scheduling (tolerations, nodeSelector, affinity) across all Sigstore Helm charts

Secure Systems Lab

- **securesystemslib:** Added AWS KMS signing support and refactored AWSSigner for better flexibility / security

Other Projects

- **elektroid:** Developed Analog Heat +FX support
- **overwatch:** Integrated Analog Heat +FX functionality

Education

DigitalCrafts | *Full-Stack Web Development* | Atlanta, GA

September 2018 – January 2019

Texas State University | *Master in Education* | San Marcos, TX

August 2010 – December 2012

University of Victoria | *B.A. in History* | Victoria, B.C., Canada

September 2002 – August 2007