Ian Hundere

Atlanta, GA | (512) 410-0083 ian.hunde.re | github.com/ianhundere | linkedin.com/in/ianhundere | ian@hunde.re "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 also enjoy self-hosting a variety of applications (e.g., Ninjam, Filebrowser, UniFi Controller) on a 5-node K3s cluster, which deepens 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

Cloud Infrastructure: AWS, Kubernetes, Terraform, Docker, Packer, Vagrant, Ansible

Programming/Scripting: Python, Bash, Go

CI/CD: GitHub Actions, GitLab CI, CircleCI, Jenkins, Helm, Git, Flux, Argo CD

Monitoring & Observability: Datadog, New Relic, Prometheus, Grafana, Zabbix, Sumo Logic

Security: Vault, Consul, Sigstore, OpenID Connect

Databases & Storage: PostgreSQL, RDS, S3, DynamoDB, MongoDB

Open Source Contributions

Sigstore Projects

- 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
- <u>helm-charts:</u> <u>Improved resiliency by adding CronJob support for copySecretJob, enhanced certificate handling with TSA cert-chain support</u> and <u>optimized scalability/scheduling (tolerations, nodeSelector, affinity) across all Sigstore</u>
 Helm charts

Secure Systems Lab Projects

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

Other Projects

- elektroid: Developed Analog Heat +FX support
- overwitch: Integrated Analog Heat +FX functionality

Experience

Senior DevOps Engineer | Liatrio | 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 <u>SLSA Build Level 3</u> by integrating <u>GitHub Artifact Attestations</u> 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%
- Captured attestations using AWS Lambda, visualizing data in OpenSearch for streamlined provenance analysis
- Troubleshot 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 resources
- Applied log processing and regex to filter noisy logs, improving the monitoring of Kubernetes pods and infrastructure
- Built and maintained dashboards and 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 Composite Actions, increasing CI/CD efficiency
- 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 CircleCl 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 and external customers
- 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 operational efficiency
- Deployed and configured monitoring tools (openLDAP, Netbox, Zabbix, Grafana) for improved visibility and system management
- 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

Education

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