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 background in education to foster clear communication and collaboration while solving complex technical challenges. With expertise in AWS, Kubernetes, Terraform, and CI/CD pipelines, I design scalable, secure, and efficient systems that drive business value. Proficient in Python, Bash, and Go, I automate processes to reduce manual tasks and optimize system performance. I enjoy self-hosting a variety of applications on a 5-node K3s cluster, deepening my hands-on experience with K8s, linux, and automation. Eager to tackle new challenges and continuously improve my skills in the ever-evolving tech landscape, with a focus on cloud architecture, automation, and DevOps best practices.

Technical Skills

Cloud Infrastructure & DevOps: AWS, Kubernetes, Helm, Terraform, CloudFormation, Docker, Packer, Vagrant, Ansible

Programming & Scripting: Python, Bash, Go, Linux (system administration, shell scripting, performance tuning)

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

Monitoring & Observability: Datadog, New Relic, Fluent Bit, Falco, Prometheus, Loki, Grafana, Zabbix, Sumo Logic

Security & Identity Management: Vault, Consul, Sigstore, OIDC (OpenID Connect), OPA/Rego

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

Experience

Senior DevOps Engineer | **Liatrio** | **Remote**   *March 2023 – Present*
- Architected private Sigstore stacks, achieving SLSA Build Level 2+ compliance for supply chain security, reducing the risk of potential security breaches across multiple client environments
- Achieved SLSA Build Level 3 by independently bridging critical gaps in GitHub's Artifact Attestations through the careful analysis of SLSA requirements and use of custom reusable workflows with minimal-infrastructure
- Reduced security management overhead by 20-30% by automating certificate management for Fulcio/TSA, reducing the number of manual steps needed to stand up our Sigstore infrastructure
- Built serverless provenance system with AWS Lambda/OpenSearch, processing millions of attestations every month and enabling real-time supply chain security analysis for a variety of audiences and departments
- Improved cluster reliability by 20% through systematic EKS troubleshooting and implementation of network policies
- Reduced downtime by 30-40% by implementing an observability stack with Prometheus, Grafana and Fluent Bit for proactive incident response

DevOps Engineer II | **Oddball, Veteran Affairs, Veteran Services Platform, Identity** | **Remote**   *April 2022 – March 2023*
- Led DevOps Community of Practice for 20+ engineers, establishing best practices and mentoring programs
- Engineered real-time Terraform drift detection system using Slack's Block Kit and Bash for AWS GovCloud, preventing unauthorized infrastructure changes and ensuring compliance
- Improved system observability by implementing intelligent log filtering, custom Datadog dashboards, and automation to ensure Terraform state parity for dashboards
- Enhanced security posture through custom IAM permission boundaries and least-privilege access controls
- Modernized CI/CD infrastructure by migrating from Jenkins to GitHub Actions, reducing build times from 20m to 13m
- Containerized legacy Ruby app into microservices architecture, improving scalability and reducing downtime by 50%

Cloud Infrastructure Engineer II | **Revel Systems** | **Atlanta, GA** / **Remote**   *November 2020 – April 2022*
- Accelerated developer velocity through the implementation of modular Terraform infrastructure for monitoring using the Datadog provider
- Developed enterprise-grade RDS management CLI tool, automating RDS access through IAM authentication improving the security and access management of production databases for 100+ internal users
- Rebuilt GitLab Runner infrastructure on EKS, implementing full IaC and drastically reducing recovery time by 60%, ensuring business continuity and preventing downtime during outages
- Increased developer velocity by many hours by creating reusable Terraform modules and CI/CD pipeline templates
- Mentored junior engineers, leading technical design reviews and incident response

DevOps Engineer | **Artis Technologies, LLC** | **Atlanta, GA** / **Remote**   *February 2020 – November 2020*
- Managed multi-environment EKS clusters supporting 30+ microservices with 99.9% uptime
- Reduced deployment times from 18m to 5m through CI/CD pipeline and integration test optimization
- Implemented monitoring and security solutions using Datadog, New Relic,Sumo Logic, and Falco
- Engineered automated security controls by implementing dynamic security group rules for CircleCI runners
- Resolved critical AWS WAF integration challenges with Twilio by implementing custom rules to allow legitimate traffic while maintaining security

Software Engineer, DevOps | Itential | Atlanta, GA　　　　　　　　　　　　*January 2019 – February 2020*
- Reduced learning environment setup time by 30% with Ansible and Docker automation
- Developed high-performance RESTful APIs using Express.js and Puppeteer for student enrollment/unenrollment
- Implemented Zabbix and Grafana for real-time alerts via Slack supporting 24/7 operations
- Automated resource cleanup processes, reducing infrastructure costs by 20%
- Maintained 95% on-time delivery rate for sprint commitments

Other Experience

Academic Technology Coach | Northside Independent School District | San Antonio, TX　　*July 2016 – June 2018*
- Designed and delivered training to thousands of educators, ensuring technology aligned with educational goals

Teacher, 4th and 5th grade | Pflugerville Independent School District | Austin, TX　　*August 2013 – June 2016*
- Led data-driven student performance initiatives and mentored colleagues in adopting new technologies

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

Open Source Contributions

Sigstore (Software Supply Chain Security Project)

- **cosign** (4.5k+ GitHub stars)**:** *Added TSA certificate chain check for environment variables and TUF targets*

- **rekor** (890+ GitHub stars)**:** *Integrated Redis authentication for better security and performance*

- *fulcio* (655+ GitHub stars)*: Added a certificate creation utility to standardize / simplify process of creating certs per Fulcio's standards*

- *timestamp-authority* (65+ GitHub stars)*: Added a certificate creation utility to standardize / simplify process of creating certs per RFC3161 standards*

- **sigstore** (3k+ GitHub stars)**:** *Implemented TSA URI for custom metadata to resolve cosign verification errors related to timestamps*

- **scaffolding** (440+ GitHub stars)**:** *Fixed TSA cert-chain split function to avoid downstream errors*

- **helm-charts** (65+ GitHub stars)**:** *Added CronJob support for copySecretJob*, *enhanced TSA certificate handling* and *optimized scheduling across Sigstore charts*

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*

Other Projects

- *elektroid* (235+ GitHub stars)*: Added Analog Heat +FX support*

- **overwitch** (135+ GitHub stars): *Added Analog Heat +FX support*

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, British Columbia, Canada　　*September 2002 – August 2007*

Interests

family/friend time | electronic music production w/ hardware-based sequencers/synthesizers | cycling | boardgames | film