Jeffrey Jing

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EDUCATION & CERTIFICATIONS

University of Washington   Seattle, WA | June 2020
Certified Kubernetes Administrator   Linux Foundation | Feb 2025

WORK EXPERIENCE

CASTLE HILL GAMING | DEVOPS ENGINEER   Charlottesville, VA | 2023-2024

- **Automated QA Repository Management-** Engineered a centralized test repository exposing a RESTful query endpoint and Git-triggered webhooks to enable dynamic test discovery and automated syncing in CI pipelines.
- **The Docker Initiative-** Refactored legacy test environments & internal tools into versioned Docker images, orchestrated with Docker Compose; pushed to ECR to standardize deployment across dev & CI environments.
- **Grafana & Prometheus-** Deployed a real-time observability stack on AWS EC2, configuring Prometheus exporters and custom scrape configs to feed live metrics into Grafana dashboards for system health visibility and alerting.
- **Cloud Infrastructure Optimization-** Refactored cloud infrastructure using Terraform to decommission unused resources, consolidate S3 storage, and reduce AWS costs by over 60% while maintaining environment parity.
- **CI/CD Pipeline Management-** Maintained and optimized TeamCity pipelines, migrated SCM from GitHub to GitLab. Configured scalable build agents on AWS EC2 to support parallel job execution & faster deployment cycles.
- **Microsoft Teams Notifications Bot-** Developed a Microsoft Teams bot using the Graph API to send real-time Git activity and CI build notifications to team channels via webhook triggers, improving pipeline transparency.
- **HMA Data Pipeline (S3, Lambda, Dropbox)** – Built a log aggregation pipeline processing 1TB/day of health/maintenance data using AWS Lambda for scheduled ingestion + cleanup, writing to S3 for audit archiving.
- **QA Test Form-** Developed a web form with Jira logging for developers to submit QA issues, hosted on Apache2.
- **Lab Checkout Form-** Developed a hardware testing reservation webpage with Flask & JavaScript.

ETHFINITY STUDIOS | SOFTWARE, DEVOPS ENGINEER   Seattle, WA | 2021–2023

- Developed and deployed production-grade ERC721 & ERC721B Solidity smart contracts with re-entrancy guards on Ethereum; tested on Rinkeby and migrated to mainnet with contract verification and gas optimization.
- Provisioned and secured AWS infrastructure using Terraform, including EC2, VPCs, and security groups; used the Moralis Web3 API integrations via JSON-RPC to support contract interaction from backend services.

PROJECTS

jeffjing.dev | React, TailwindCSS, Terraform, AWS

- Built jeffjing.dev, a Terraform-managed site on AWS (Amplify, Route 53, S3, ACM) with CI/CD, HTTPS redirects, and Lambda + API Gateway for dynamic recruiter features. Overcame real-world IaC challenges in multi-environment setup and module reuse.

DevOps & Infrastructure for PokerNOWAI | EKS, Terraform, Istio

- Modularized a monolithic app into Dockerized microservices, deployed to AWS EKS using Terraform. Built secure, production-grade infrastructure with CI/CD and cloud-native DevSecOps practices.

Infrastructure-as-Code with Terraform | EKS with RDS, Terraform

- Provisioned prod/dev environments with modular Terraform for EKS + RDS, enabling VPC-connected workloads. Used S3 for remote state and real-world IaC practices.

SKILLS

DevOps: Kubernetes, Helm, Grafana, Prometheus, Docker, Github Actions, Terraform
Languages: Java, Solidity, C++, Python, Bash, K8s CLI
Technologies: Remix, Git, Jira, Grafana, Flask, Apache2, TeamCity
AWS: EC2, S3, Lambda, EKS, RDS, Route53, Amplify, VPCs, IAM