# 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

- 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.
- Containerized backend services with Docker, pushed to Amazon ECR, and deployed images on EC2 instances.
- 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.

## PROJECTS & FREELANCE WORK

### jeffjing.dev | React, TailwindCSS, Terraform, AWS

- Built jeffjing.dev, a Terraform-managed site on AWS 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

- 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, 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