BLESSING OMOREGIE

DevOps Engineer | Quantitative Trading Developer

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PROFESSIONAL SUMMARY

Results-driven DevOps Engineer with proven expertise in CI/CD automation, cloud infrastructure, monitoring systems, and algorithmic trading. Achieved 99.9% system uptime through comprehensive monitoring, reduced deployment time by 40%, and improved incident response by 35% through automated alerting. Currently managing production infrastructure at Gradific while developing systematic trading strategies. Combines technical DevOps excellence with quantitative finance knowledge to build reliable, data-driven systems. Seeking roles in DevOps Engineering or Quantitative Trading where I can leverage dual expertise to drive operational excellence and systematic alpha generation.

TECHNICAL SKILLS

DevOps & Cloud: AWS (EC2, IAM, VPC, CloudFormation), Azure, Docker, Kubernetes, Terraform, Ansible, GitHub Actions, Jenkins, Prometheus, Grafana, Alertmanager, Node Exporter, Blackbox Exporter, Traefik, ELK Stack, Nginx

Programming & Development: Python, JavaScript, Bash, SQL, FastAPI, React, Flask, RESTful APIs, OpenAPI/Swagger

Quantitative Finance: Algorithmic Trading, Machine Learning (XGBoost, scikit-learn), Technical Analysis, Risk Management, Backtesting, Strategy Development, MetaTrader 5

Systems Engineering: Linux Namespaces, cgroups, chroot, seccomp, AppArmor, Container Internals, System-level Isolation

Tools & Databases: Git, GitHub, Linux/Unix, PostgreSQL, MySQL, SQLite, Slack/Telegram APIs

PROFESSIONAL EXPERIENCE

DevOps Engineer (Contract)   April 2025 – August 202
Gradific

- Designed and implemented robust CI/CD pipelines using GitHub Actions, managing automated workflows across development, staging, and production environments, reducing deployment time by 40% and increasing deployment frequency by 50%
- Established comprehensive monitoring system utilizing Grafana, Prometheus, Node Exporter, and Blackbox Exporter, achieving 99.9% system uptime
- Developed custom DORA metrics application to monitor CI/CD deployments, improving team efficiency by 30% through data-driven insights
- Created real-time alerting system with Prometheus and Alertmanager integrated with Slack, enabling proactive identification of 80%+ potential issues and reducing critical alert resolution time by 35%
- Successfully migrated application from Vercel to self-hosted server environment, reducing hosting costs by 25%
- Implemented CI/CD pipelines for Quality Assurance processes, reducing QA environment setup time by 60%
- Managed server setup and configured Nginx for efficient traffic routing across multiple environments
- Participated in on-call rotation ensuring 24/7 system availability and prompt resolution of critical production issues
- Collaborated closely with development and QA teams to integrate automated testing into CI/CD pipelines, ensuring code quality and stability early in the development cycle

DevOps Engineer Intern   January 2025 – April 202
HNG Tech

- Engineered Infrastructure as Code using Terraform and Ansible, enabling one-command deployments across development and production environments, reducing deployment complexity by 60%
- Built comprehensive CI/CD pipelines with GitHub Actions for FastAPI applications, reducing deployment time by 40% and enabling 15+ weekly deployments with zero-downtime strategies
- Deployed Prometheus and Grafana for real-time monitoring and alerting, achieving 30% reduction in deployment lea time through DORA metrics tracking and optimization
- Implemented Slack alerting system for critical infrastructure thresholds (CPU > 80%, service downtime), improving incident response time by 25%
- Containerized microservices using Docker and orchestrated with Kubernetes, improving system scalability and reliability with Traefik reverse proxy configuration
- Documented infrastructure setup and created runbooks for common operational tasks

KEY PROJECTS

Gradific CI/CD & Monitoring Platform
Gradific | DevOps & Cloud Infrastructure

April 2025 – August 202

- Architected production-grade DevOps infrastructure managing multi-environment deployments with automated testing, building, and deployment verification
- Implemented comprehensive monitoring stack with Prometheus, Grafana, Node Exporter, and Blackbox Exporter tracking system health, application performance, and business metrics
- Developed custom DORA metrics dashboard providing real-time insights into deployment frequency, lead time, change failure rate, and mean time to restore
- Configured Alertmanager with Slack integration for proactive incident detection and resolution
- Technologies: GitHub Actions, Prometheus, Grafana, Nginx, Alertmanager, Node Exporter, Blackbox Exporter, Slack AF

Container Isolation System (Docker Alternative)
Personal Project | Systems Engineering

December 202

- Built lightweight container-like environment from scratch demonstrating deep understanding of containerization internals without using Docker
- Implemented process isolation using Linux namespaces (PID, User, Network, Mount) to create separate execution contexts
- Configured resource limiting with cgroups to control CPU, memory, and disk I/O usage
- Created isolated filesystem environment using chroot/pivot_root with proper system file mounting
- Applied security hardening with seccomp and AppArmor to restrict system calls and enhance security
- Technologies: Linux Namespaces, cgroups, chroot, Bash scripting, systemd, seccomp, AppArmor

DORA Metrics Monitoring System
HNG Tech | DevOps & Observability

March 202

- Designed and deployed comprehensive monitoring infrastructure tracking key DevOps performance indicators
- Integrated Prometheus with GitHub Actions to capture CI/CD pipeline metrics and deployment data
- Created custom Grafana dashboards visualizing Deployment Frequency, Lead Time for Changes, Change Failure Rate, and Mean Time to Restore
- Configured alerting rules for critical thresholds (CPU > 80%, memory > 80%, service downtime) with automated Slack notifications
- Implemented both failure and recovery alerts enabling proactive incident management
- Technologies: Prometheus, Grafana, Node Exporter, Blackbox Exporter, Alertmanager, GitHub Actions, Slack API

Dynamic Backend Deployment Platform

February 202

HNG Tech | Cloud Architecture

- Designed Kubernetes-based architecture for dynamically deploying and testing backend applications in isolated environments
- Architected namespace-per-deployment model with dedicated pods for application, database, testing application, an testing database
- Designed API gateway for request routing and management across multiple backend deployments
- Created automated testing and validation workflow with production promotion mechanism
- Proposed comprehensive state management system for tracking deployment lifecycle
- Technologies: Kubernetes, Namespaces, Pods, Services, API Gateway, CI/CD, PostgreSQL

Nixie's Gold Trading Bot

November 2024 – Preser

Personal Project | Quantitative Trading

- Developed sophisticated algorithmic trading system for gold (XAU/USD) achieving 65-75% win rate in backtesting through 6-factor confluence strategy combining technical analysis, smart money concepts, and machine learning
- Implemented multi-timeframe analysis system (H4 + M15) processing 500-1000 bars per timeframe with custom technical indicators including RSI divergence detection, liquidity sweep identification, and market regime classification
- Integrated XGBoost machine learning model for signal filtering, extracting 20+ features from price and indicator data
- Deployed production system to AWS EC2 with 24/7 uptime, automated restart mechanisms, and Telegram multi-user broadcasting platform
- Technologies: Python, MetaTrader 5, XGBoost, scikit-learn, Pandas, NumPy, AWS EC2, Telegram Bot API, PostgreSQL

FastAPI Microservices Platform

January 2025 – April 202

HNG Tech | DevOps & Cloud Infrastructure

- Architected containerized microservices platform managing 15+ services across multiple environments with consistent Infrastructure as Code deployment pipelines
- Implemented automated CI/CD workflows with GitHub Actions including testing, security scanning, building, and deployment verification stages
- Technologies: Docker, Kubernetes, Terraform, Ansible, GitHub Actions, Prometheus, Grafana, FastAPI, Traefik, PostgreSQL

EDUCATION

Bachelor of Science in Software Development

September 2024 – Preser

Brigham Young University - Idaho, Rexburg, ID

Bachelor of Science in Computer Science

September 2021 – Preser

University of Benin, Benin City, Nigeria

KEY ACHIEVEMENTS

- Achieved 99.9% system uptime through comprehensive monitoring and proactive alerting at Gradific
- Reduced deployment time by 40% and increased deployment frequency by 50% through CI/CD optimization
- Improved incident response time by 35% through automated alerting and runbook automation
- Reduced hosting costs by 25% through successful cloud migration from Vercel to self-hosted environment
- Improved team efficiency by 30% through DORA metrics tracking and data-driven insights