

Ralph Quick

Clearance-Eligible US Citizen (Clear Credit)

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Professional Summary

AWS-certified Cloud and DevOps Engineer with clearance eligibility, expert in architecting highly available, compliant cloud infrastructure, and automating secure CI/CD pipelines for mission-critical workloads. Skilled at designing and migrating containerized, serverless, and event-driven environments. Provided support for high-impact cloud security initiatives and federal IT compliance projects for the James Webb Space Telescope. Recognized for mentoring 60+ engineers to AWS certification and Cloud roles, optimizing resource utilization, and elevating operational efficiency through Infrastructure as Code and advanced DevOps methods. US citizen with strong financial integrity, now expanding into AI agentic architecture and advanced cloud compliance for federal programs.

Skills

OS | Scripting | Web | Automation | EDA | System Auditing | AWS | Container Orchestration | Security | Networking Database | Cost Management | Infrastructure as Code | Source Code Management | Coaching | Artificial Intelligence

Tech Stack: AWS Linux23, CentOS, Ubuntu, Red Hat | Bash, Python (basic/Boto3), YAML, AWS CLI | Apache, Nginx, MetalLB, Html, CSS, Divi Page Builder, WordPress CMS, Web hosting, FileZilla | Ansible, Terraform, CloudFormation, AWS Lambda, AWS Systems Manager, AWS Auto-Scaling | Splunk, CloudWatch, EventBridge, CloudTrail, CheckMK, OpenSCAP, Lynis, Top, Prometheus, Grafana, Robusta | S3, S3 Glacier, IAM, EC2, SNS, SQS, EBS, EFS, AWS Organizations, Cognito, BeanStalk, AWS BackUp, Storage Gateway | ECS, Docker, Oracle VM Virtual Box, Kubernetes, Rancher 2, EKS, Helm, Harbor, Velero | AWS Shield, AWS WAF, AWS Security Hub, AWS KMS, GuardDuty, ControlTower, Artifact, Secrets Manager, Inspector | AWS VPN, Amazon VPC, Route 53, CloudFront, Elastic Load Balancer | RDS, Aurora, DynamoDB, MySQL, MariaDB, PostgreSQL, DBeaver, MySQL Workbench, AWS DataSync | AWS Cost Explorer, AWS Budgets, AWS Cost and Usage Reports | GitHub, GitLab CI, DevPod, AWS CodeDeploy, AWS CodePipeline | Slack, Jira, Visual Studio Code, Git Bash, PowerShell, MS Office, ServiceNow, Confluence, Amazon Q Developer, Perplexity.ai, N8N

Professional Certifications

AWS Certified SysOps Administrator – Associate	December 2022
AWS Certified Developer – Associate	October 2023
AWS Certified Solutions Architect – Associate	September 2023
AWS Certified DevOps Engineer - Professional	Pending November 2025
AWS Certified AI Practitioner	Pending December 2025

Issued by Amazon Web Services Training and Certification

CompTIA Security+ ce Certification	February 2024
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Issued by CompTIA

HashiCorp Certified: Terraform Associate	July 2024
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Issued by HashiCorp

Additional professional certifications are found at the following link:

bit.ly/3pqjHaa

Professional Experience

Technologist II - Cloud Native DevSecOps July 2024 – February 2025

Space Telescope Science Institute | Baltimore, MD

- Administered multi-cluster Rancher 2 Kubernetes environments supporting 100+ developers; achieved 99.99% uptime for James Webb Space Telescope application projects for commissioning cycles.
- Optimized CI/CD pipelines (GitLab CI, Terraform, Helm), enabling zero-downtime releases and reducing deployment cycle time by 40% from test to production.
- Improved cluster reliability and efficiency with automated scaling and monitoring (Harbor, Prometheus, Robusta, Grafana, Uptime Kuma, Slack Ops), resulting in a 30% reduction in urgent support incidents.
- Enhanced security through automated SSL management and data protection, reducing vulnerability remediation time by 50% in line with NASA commissioned DevSecOps standards.
- Executed seamless Kubernetes cluster migrations with Velero backups, achieving zero data loss and no operational downtime.
- Lead documentation of DevOps best practices in Confluence, accelerating onboarding and reducing support requests for new engineers.
- Delegated GitHub access and ownership migrations for secure NASA and research collaborations.
- Supported 24/7 operations for NASA commissioned James Webb Space Telescope, ensuring continuous mission readiness.

AWS Cloud Systems Administrator

February 2022 – July 2024

Pro-Core Plus | Silver Spring, MD

- Architected and maintained high-availability AWS infrastructures, enabling 24/7 uptime and seamless operation for hybrid enterprise environments.
- Implemented Infrastructure as Code (Terraform, CloudFormation, AWS CDK), reducing manual deployment effort by 70% and ensuring consistent, scalable multi-tier system builds.
- Deployed and configured key AWS services (Lambda, CoPilot, Systems Manager, CodeDeploy, EventBridge) to automate processes and increase operational efficiency by 40%.
- Designed and tested disaster recovery solutions, cutting recovery time by 60% and strengthening business continuity for business-critical applications.
- Optimized cloud resource usage through EC2 auto-scaling and high-availability database deployments, decreasing costs by 25% and improving system performance.
- Lead CI/CD pipeline development with cross-functional teams, accelerating release cycles and supporting DevOps automation on AWS.
- Automated ETL data pipelines using Lambda, S3, EMR, and AWS Glue, boosting data analytics speed and accessibility.
- Managed high-traffic content management systems and web presence, sustaining peak performance and reliability for corporate platforms on Amazon ECS.

Cloud SysOps/DevOps Instructor March 2023 – Present

Yellow Tail Tech | Silver Spring, MD

- Designed and delivered comprehensive ‘*Cloud for Jobs*’ curriculum, integrating hands-on labs and real-world projects for up to 65 students per cohort.
- Authored and lead a 16-week AWS DevOps Professional course, enabling high certification pass rates and job readiness for aspiring cloud engineers.
- Mentored diverse student groups (26–65 per class) in AWS, DevOps, and cloud architectures, providing one-on-one career guidance and technical coaching.
- Collaborated with instructional teams to enhance course content and teaching strategies, resulting in increased student engagement and learning outcomes.
- Facilitated interactive, practical training experiences that translated into real-world skill development and successful job placement for graduates.
- Contributed to Yellow Tail Tech’s distinction as an AWS Official Training Partner, upholding the highest standards for curriculum quality and instructional excellence.

Host Administrator & WordPress Specialist August 2005 – December 2024

AnnieCanDo E-commerce | Altamonte Springs, FL

- Architected and managed full-stack WordPress e-commerce platforms, integrating MySQL databases, CRM, and social media aggregation to drive business growth and user engagement.
- Engineered advanced integrations (MLS API, AWS S3, Amazon Alexa, Cloudflare CDN), expanding site functionality and enhancing user experience for thousands of monthly visitors.
- Optimized caching and database performance, reducing page load times by 40% and improving responsiveness across peak traffic periods per GTmetrix tests of 97.0% performance efficiency.
- Maintained WordPress core, themes, and plugins to current security and functionality standards, achieving 100% uptime, 24-hour snapshots, and zero major vulnerabilities over multi-year operation.
- Conducted ongoing performance testing and live troubleshooting, ensuring fast, reliable site operation and rapid issue resolution.
- Delivered tailored WordPress and site management training, enabling clients to independently manage and update their e-commerce platforms.

Education

Yellow Tail Tech

Cloud for Jobs | AWS Official Training Partnership

AWS SysOps DevOps Engineer | Linux

- Awarded Class MVP for academic accolades and team building support. 3.9 / 4.0 GPA

Broward College

Associate of Arts | Visual Communications Candidate

3.0 GPA. | 32 credits completed