

Ralph Quick

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AWS Cloud & Kubernetes DevOps Engineer

I am an AWS-certified Cloud Engineer with expertise in DevOps, AWS services, and Kubernetes administration. Skilled in highly-available infrastructures, implementing Infrastructure as Code, and developing automated CI/CD pipelines. Experienced in designing secure architectures, containerized environments, and serverless applications. Mentored over 60 students to AWS certification success and Cloud Engineer apprenticeship. Proficient in optimizing cloud resources, enhancing security, and driving operational efficiency through automation and DevOps methodologies.

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

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 2025
AWS Certified Solutions Architect – Professional	Pending 2025
Issued by Amazon Web Services Training and Certification	
CompTIA Security+ ce Certification	February 2024
Issued by CompTIA	
HashiCorp Certified: Terraform Associate	July 2024
Issued by HashiCorp	
Red Hat Certified System Administrator	Pending 2025
Issued by RedHat	

Additional professional certifications are found at the following link:

bit.ly/3pgjHaa

Professional Experience

Technologist II - Cloud Native DevSecOps (Remote)

July 2024 – February 2025

Space Telescope Science Institute | Baltimore, MD

- Support DevOps initiatives for 500+ developers, managing a variety of multi-cluster Rancher 2 Kubernetes environments hosted on VMware with S3 storage.
- Implement and maintain robust CI/CD pipelines using GitLab CI, Terraform, and Helm, ensuring efficient deployment and management of multi-tier infrastructure and applications.
- Optimize cluster performance and reliability through auto-scaling, high availability configurations, and failover protection, utilizing tools such as Harbor, Robusta, Prometheus, and Grafana.
- Enhance security protocols for virtual environments, including SSL certificate management and data protection measures aligned with industry best practices.
- Execute cluster migrations and integrations using Velero backups, ensuring seamless transitions between source and destination clusters.
- Develop and maintain comprehensive DevOps documentation in Confluence, establishing consistent quality standards from development to production.
- Manage GitHub administration, including user memberships, repository access, and ownership migrations.
- Provide critical support for the James Webb Space Telescope project, contributing to 24/7 NASA commissioning efforts.

AWS Cloud Systems Administrator (Remote)

February 2022 – July 2024

Pro-Core Plus | Silver Spring, MD

- Architected and managed high-availability AWS cloud infrastructures, implementing comprehensive monitoring, testing, and troubleshooting for system operations, applications, and hybrid environments.
- Deployed and configured diverse AWS services for multi-tier architectures, ensuring seamless application performance, robust security measures, and efficient data management.
- Implemented Infrastructure as Code using Terraform, CloudFormation, and AWS CDK, streamlining deployment and management of complex multi-tier infrastructures.
- Leveraged AWS services including Lambda, CoPilot, Systems Manager, CodeDeploy, and EventBridge to enhance operational efficiency and automate key processes.
- Designed and implemented robust disaster recovery solutions, significantly reducing recovery time and improving business continuity.
- Optimized cloud services through auto-scaling EC2 instances and highly available database deployments, resulting in improved performance and cost efficiency.
- Led cross-functional collaboration to establish and maintain CI/CD pipelines, driving DevOps initiatives for automated deployments on AWS.
- Automated ETL pipelines using Lambda functions with EMR and AWS Glue, enhancing data accessibility and analytics capabilities.
- Managed and maintained high-performance content management systems and corporate web presences.

Cloud SysOps/DevOps Instructor (Remote – Part Time) March 2023 – Present

Yellow Tail Tech | Silver Spring, MD

- Develop and deliver comprehensive curriculum for 'Cloud for Jobs' program, including hands-on lab modules and real-world projects.
- Provide expert instruction in cloud technologies, DevOps practices, and AWS services to classes of 26-65 students.
- Created and delivered an AWS DevOps Professional 16-week course.
- Mentor aspiring cloud professionals, offering guidance on career development and industry best practices.
- Collaborate with the instructional team to continuously improve course content and teaching methodologies.
- Facilitate interactive learning experiences, ensuring students gain practical skills applicable to real-world scenarios.
- Yellow Tail Tech is an AWS Official Training Partner

Host Administrator & WordPress Specialist August 2005 – December 2025

AnnieCanDo E-commerce | Altamonte Springs, FL

- Architected and managed full-stack WordPress e-commerce websites, integrating MySQL databases, social media aggregation, CRM management, and optimizing hosting instances for peak performance.
- Implemented advanced integrations including MLS API, AWS services, S3, Amazon Alexa, and Cloudflare CDN, enhancing site functionality and user experience.
- Optimized database and object caching, significantly improving website speed and responsiveness.
- Maintained WordPress core, themes, plugins, and snapshots, ensuring up-to-date security standards and functionality.
- Conducted regular performance tests, troubleshooting, and live observability to ensure optimal website operation.
- Delivered comprehensive WordPress training, empowering client with site management skills.

Education

Yellow Tail Tech

Cloud for Jobs | AWS Official Training Partnership

AWS SysOps DevOps Engineer

- 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