Matthew Nash

Cloud Architect & DevOps Engineer

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TS/SCI

EXPERIENCE

Aleut Federal - *Senior DevSecOps Engineer*

MARCH 2022 - PRESENT

- Collaborate with development and design teams to support Drupal site migration and development
- Build, operate, and maintain Rancher Kubernetes platforms on AWS
- Create CI/CD pipelines with Bitbucket Pipelines
- Integrated security into pipelines with Software Composition Analysis (SCA), SAST, and DAST scanning
- Write infrastructure as code and scripts to support build, test, and release automation
- Organize and deploy production releases for multiple USDA Drupal sites

Riva Solutions - *DevSecOps Engineer Lead*

DECEMBER 2020 - MARCH 2022

- Led platform engineering team at USDA DAITO
- Built bare-metal Rancher Kubernetes (RKE) cluster for production workloads
- Wrote Helm charts for standard and customized Drupal site deployments
- Drafted DevOps roadmap for enterprise Kubernetes platform
- Remediated vulnerabilities found with HP Inspect, Nessus, and Snyk
- Developed and implemented proof of concept architectures on AWS and Azure for Kubernetes enterprise platforms
- Performed security upgrades, patching, and deployment for production platform with 30 Drupal sites

Efiia Group - *Cloud Architect*

APRIL 2020 - DECEMBER 2020

- Planned and deployed AWS infrastructure and accounts for DoD IL4 environment in AWS GovCloud

- Developed and maintained cloud operations using infrastructure as code with Cloudformation
- Built enhanced IAM authentication, monitoring, logging, and metrics with Okta and Cloudwatch
- Developed CI/CD pipelines with Gitlab for mobile development and release management
- Created data analytics pipeline with Lambda, Kinesis, S3, Athena, and Quicksight

Rivet Logic - *AWS Technical Lead*
OCTOBER 2019 - OCTOBER 2020

- Interpreted requirements and developed infrastructure as code to support new features for opensource intelligence video portal application using CloudFormation, Lambda, and API Gateway
- Collaborated with software architects and application teams to ensure optimal software delivery, application performance, and scalability
- Ported application from EC2 to Elastic Kubernetes Service (EKS)
- Developed code and scripts to create automated product release pipelines from development to production with Jenkins
- Lead effort to build out enhanced monitoring, logging, and metrics with CloudWatch and Splunk
- Integrated application with custom SAML enterprise solution for IAM
- Supported remediation of security controls for application ATO processes

Hitachi Vantara Federal - *Cloud Architect*
OCTOBER 2018 - OCTOBER 2019

- Led cloud engineers on a cloud migration project, migrating 80 Windows and RHEL applications from VMWare to AWS following the DOD Secure Cloud Computing Architecture
- Used Terraform to build out architecture and create a layered automated deployment framework for workload applications
- Worked with DARPA organization to design architecture in line with security domains for IAM as well as privileged and non-privileged traffic flows
- Solutioned a high availability transit VPC framework with Palo Alto firewalls to support security and routing to multiple VPCs
- Built out monitoring, logging, backup and restore for cloud resources to meet security requirements prior to migration

Capital One - *Senior Software Engineer*
MAY 2018 - OCTOBER 2018

- Worked on a team of DevOps engineers to plan, deploy, and maintain critical business applications in production and non-production AWS environments
- Made gradual improvements to application stack using infrastructure-as-code best practices with Ansible and Terraform
- Participated in the design, development, testing, and release of new capabilities and features with a focus on release and production support
- Configured monitoring dashboards and alerts with Datadog as well as logging queries with Splunk
- Performed security scans with Qualys and remediated findings by updating Bash scripts and Ansible templates
- Ported elements of application stack from EC2 to Docker Images deployed using the Hashistack including Nomad, Vault, Consul, and Consul-template

MicroHealth - *DevOps Engineer Lead*

JANUARY 2017 - MAY 2018

- Led engineers in providing devops engineering support
- Operated and maintained Oracle Weblogic servers and Oracle databases for environments
- Built out enterprise cloud infrastructure following the AWS well-architected framework
- Provided devops and system engineering subject matter expertise for for multiple DHA and VA contracts

Planned Systems International - *DevOps Engineer Lead*

JANUARY 2016 - JANUARY 2017

- Collaborated with developers to implement new features on a DOD Case Management system at DHA
- Performed system design and architectural activities, including updating DODAF views and SDD documentation
- Designed and implemented network and cloud infrastructure for DoD to VA application interoperability using RESTful web services, two-way SSL authentication, and VPN tunneling
- Designed and built out CI/CD pipelines for a Java application with Maven and Jenkins
- Automated vulnerability scans and reports with Nessus
- Automated regression testing with Selenium
- Hardened all systems in accordance with RHEL STIGs using Ansible for configuration management

Valytics - *Test Automation Engineer*

JUNE 2015 - JANUARY 2016

- Automated test scripts for native and web applications with HP UFT for the DOD MHS GENESIS EHR
- Performed web application penetration testing with Burpsuite
- Performed unit and regression testing on multiple DHA contracts

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SKILLS

Cloud Providers: AWS, Azure
Languages: NodeJS, Python, Bash
Configuration Management: Ansible, Terraform, CloudFormation, CDK, Serverless Framework
Container Orchestration: Docker, Kubernetes, ECS, ArgoCD, Rancher
CI/CD: Github Actions, Bitbucket Pipelines, AWS Codebuild, Gitlab, Jenkins

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EDUCATION

Colorado State University - *PhD - Political Science*

AUGUST 2010 - MAY 2014

Virginia Tech - *MA - Political Science*

AUGUST 2008 - DECEMBER 2009

Virginia Tech - *BA - Political Science*

AUGUST 2004 - MAY 2008

CERTIFICATIONS

Certified Kubernetes Application Developer (2024), Microsoft Azure Administrator (2020), AWS Solution Architect Professional (2018), Certified Information Systems Security Professional (2017), Certified Ethical Hacker (2017), AWS Certified Developer (2017), AWS Solutions Architect Associate (2017), CompTIA A+, Network+, Security+ (2015)