Adnan Gulegulzar

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WORK EXPERIENCE

Software Developer, Platform
May 2024 – Oct 2024

Kaytu(OpenComply.io) — *Remote*

- Developed a command-line tool to integrate Kaytu features for operations within closed cloud environments.
- Implemented Kubernetes log export to Amazon CloudWatch, ensuring comprehensive logging and monitoring for security and performance insights.
- Designed and executed integration tests for Kaytu components with AWS services, improving system reliability and compliance with cloud security standards.
- Built scalable data pipelines integrating 30+ Azure services, ensuring seamless cross-cloud data processing and analytics.
- Developed a Google Cloud Platform (GCP) plugin to enhance multi-cloud compatibility, optimizing secure and resilient cross-platform operations.
- Collected and analyzed telemetry metrics to optimize AWS and GCP Compute Instances, ensuring cost-effective and scalable cloud performance.
- Designed and implemented a GRPC-based inter-service communication architecture, enhancing secure and efficient interoperability between Kaytu CLI and its GCP plugin.
- Optimized CI/CD workflows to reduce build times for multi-architecture binaries by 20%, enhancing DevSecOps efficiency and deployment security.

Software Developer
Jan. 2023 – Sep. 2023

Caseware International — *Toronto, ON*

- Collaborated on feature enhancements and bug resolution for the Working Papers accounting software, improving functionality and user experience.
- Reduced the development backlog by 5.5% across multiple Working Papers repositories, enhancing project delivery timelines.
- Successfully migrated encrypted data for 250+ client firms, transferring over 10% client data securely to the cloud.
- Participated in 7-day on-call rotations to execute, monitor, and troubleshoot data migration procedures, ensuring seamless transitions.

Enterprise Engineer, Platform Engineering
May 2021 – Nov. 2021

Wolters Kluwer — *Chennai, TN*

- Developed reusable and scalable Terraform modules for AWS Networking (VPC, Subnets, Route Tables) and AWS IAM services, enabling automated infrastructure provisioning.
- Implemented synthetic monitoring for two internal bulk mail service endpoints using AWS CloudWatch Synthetics, ensuring proactive issue detection and resolution.
- Maintained 99.9% endpoint uptime to ensure compliance with industry standards and regulatory requirements, for the bulk mail service, leveraging AWS monitoring and automation tools.
- Devised and initiated a strategy to replace Python scripts and AWS CloudFormation templates, with Terraform, standardizing infrastructure as code across the organization.

Associate Engineer, Platform Engineering
Jan. 2020 – May 2021

Wolters Kluwer — *Chennai, TN*

- Designed and implemented end-to-end automation to standardize cloud service delivery across the organization, improving efficiency and consistency.
- Developed Python-based automation scripts to provision, monitor, update, and decommission AWS/Azure resources, supporting 55+ product teams.
- Conducted comprehensive unit testing of automation scripts to ensure the reliability and compliance of AWS infrastructure.
- Created and maintained Standard Operating Procedures (SOPs) to guide the operations team in utilizing automation solutions effectively.
- Introduced a structured 5-point peer review checklist to enhance the integrity and maintainability of pull requests.
- Led Agile ceremonies, including daily standups, sprint planning, and retrospectives, to facilitate collaboration within the Platform Engineering Team.

Open Source Contributions

Validator   Nov 2024
Spectro Cloud
- Modified Validator's Kubernetes Controller, to add support for custom frequency of validation checks.
- Updated Custom Resource Definition(CRD) for OCI plugin to accept said custom frequency.

Grype   Oct 2024
Anchore
- Added "providers" command for the Grype tool, to list the active vulnerability databases used for SBOM generation.

Oras   Jul 2024
Microsoft
- Updated error handling for improving debugging and user experience.

Zot Registry   Jul 2024
Cisco
- Updated documentation to use Oras CLI with zot registry.

Education

University of Windsor   Windsor, ON
Master of Applied Computing   *Jan. 2022 – Aug. 2023*

Vellore Institute of Technology   Vellore, TN
Bachelor of Technology in Computer Science and Engineering   *July 2016 – June 2020*

Certifications

Kubernetes and Cloud Native Associate(KCNA)
The Linux Foundation   *Mar 2024*

Microsoft Certified: Azure Fundamentals
Microsoft   *Mar 2021*

HashiCorp Certified: Terraform Associate
HashiCorp   *Oct 2020*

AWS Certified Solutions Architect – Associate
Amazon Web Services Training and Certification   *Jul 2020*

Technical Skills

Software Development: Go, Python, C++, GIT, Github
Cloud Platforms: AWS, Azure, Google Cloud Platform
AWS Services: EC2, S3, VPC, Lambda, RDS, Cloudwatch, SNS, SQS, SES, Route53, API Gateway
Platform Engineering: Kubernetes, Docker, Podman, Skopeo, Terraform, CloudFormation
CI/CD: Azure Devops, Github Actions, Github Packages, Jenkins