

## SUMMARY

Extensively skilled and certified AWS Solutions Architect Associate, Certified Kubernetes Administrator, and Certified HashiCorp Terraform Associate, SRE and DevSecOps Engineer with hands-on experience designing, implementing, and managing secure cloud infrastructure on AWS, Azure, and GCP. Expert in using Kubernetes to automate infrastructure deployment, secure networks, and manage containers. Adept at implementing security measures and adhering to compliance and auditing best practices. Possesses a strong background in scripting and automation with a focus on building sophisticated continuous integration and continuous deployment (CI/CD) processes. Strong and commendable at problem solving, agile project planning, solution designing, communication, documentation, team management and leadership skills.

- Proficient in architecting and deploying cloud-based applications through automation on AWS EC2, S3, EFS, Lambda, RDS, ECS, EKS, CloudFront, API Gateway, EMR, WAF, SNS, SES, VPC, KMS, Route53, DynamoDB, IAM, OpsWorks, Step Functions, Elastic Cache, CloudWatch etc.; Azure VM, Blob, Vnet, Subscription, Resource Group, Key Vault, and GCP VPC, Cloud VPN, Compute Engine, Cloud Storage, Cloud Datastore, Cloud Firestore, GKE, IAM, BigQuery, Traffic Director, Dataproc, Composer, Vertex AI, Cloud Function, PubSub etc.
- Experienced in migrating applications from on-premises to cloud service providers like AWS, Azure, and GCP as well as cloud-to-cloud.
- Subject Matter Expert in Hashicorp Terraform (Infrastructure as a Code).
- Subject Matter Expert in Kubernetes on-premises and cloud.
- Designing, developing, and administering the MSSQL database for production-grade through automation by tools like a chef.
- Designing and configuring end-to-end Continuous Integration & Continuous Deployment pipelines for infrastructure building, application code compilation, code quality, systems configuration, and test automation on GitHub actions, TeamCity, Jenkins, Go CD, and Azure DevOps.
- Designing solutions for service updates or patching on cloud-based applications with minimal downtime.
- Designing solutions to reduce operations and increase automation efficiency.
- Designing monitoring solutions for infrastructure, applications, and other cloud-based resources using Datadog, Grafana, and Splunk.

## Technical Skills

- **Cloud Service Providers:** AWS, GCP, Azure
- **AWS Services:** EC2, S3, EFS, Lambda, RDS, ECS, EKS, CloudFront, API Gateway, EMR, WAF, SNS, SES, VPC, KMS, Route53, DynamoDB, IAM, OpsWorks, Step Functions, Elastic Cache, Cloudwatch etc.
- **GCP Services:** VPC, Cloud VPN, Compute Engine, Cloud Storage, Cloud Datastore, Cloud Firestore, GKE, IAM, BigQuery, Dataproc, Composer, Cloud Function, Vertex AI, PubSub etc.
- **Azure Services:** VM, Blob, Vnet, Subscription, Resource Group, Key Vault.
- **Programming Language:** Python, Shell, Powershell, Java (basics)
- **SQL:** MSSQL, SQL Server Management Studio
- **SCM:** GitHub, SVN, BitBucket
- **Container Technologies:** Docker, Kubernetes, Helm
- **CI/CD:** Jenkins, Azure DevOps, GitHub Actions, Sonarqube, Veracode
- **Infrastructure As a Code:** Terraform, Vault, Chef, Ansible
- **Monitoring & Logging:** Datadog, Splunk, Grafana

# Venkata Sai Rahul Sunkari

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## PROFESSIONAL EXPERIENCE

**Client:** DUN & BRADSTREET

**Apr 2023 - Aug 2023**

**Role:** SRE & Sr. DevSecOps Engineer

**Project:** DAP CloudOps & SRE

**Employer:** Atyeti IT Services Pvt Ltd

### Responsibilities:

- Designed and implemented a new branching strategy to deploy multiple environments on GCP using a single branch/ code base of terraform configuration.
- It involved development of solutions to implement zero downtime code refactoring strategies and modernizing terraform code to leverage latest updates and features.
- Implemented the automation using github actions that used customized actions, reusable workflows, verified actions by hashicorp, github script by octokit and sophisticated event trigger patterns to implement terraform plan and apply, tag creation and stale branch deletion all by automation.
- Implemented certificate auto-rotation on kubernetes pods from venafi on GKE cluster using cert-manager and other kubernetes components.
- Implemented SOLR on HA mode on managed google cloud dataproc cluster as part of migration from AWS to GCP.
- Performed production deployments of various application infrastructure deployments.
- Constantly monitored the GCP infrastructure components and troubleshooted production bugs (kubernetes version issue, third party tool configuration issue, capacity issue etc.)
- Involved in POC for implementing GCP Vertex AI for GenAI services in the organization.
- Reverse engineered python (flask) based developer experience organization's foundational application.

### Environment:

GCP - Cloud Function, GKE, Storage, Composer, Dataproc, Vertex AI, Terraform - Cloud, Enterprise, GitHub Actions, SOLR, Shell, Python, DynamoDB, Flask

**Client:** DUN & BRADSTREET

**Jan 2023 - Mar 2023**

**Role:** Sr. DevSecOps Engineer

**Project:** Netwise

**Employer:** Atyeti IT Services Pvt Ltd

### Responsibilities:

- Designed and migrated deployment solutions for running Big Query queries on GKE.
- Templated reusable code and design solutions towards low-code and no-code maturity.
- Migrated continuous integration and continuous deployment pipelines from Google Cloud Build to GitHub Actions and developing Terraform scripts for infrastructure deployment automation.
- Integrated GCP – AWS IAM authentication and pub/sub based eventarc trigger for Google Cloud Functions V2.

**Environment:** GCP - GKE, BigQuery, Cloud Function, Storage, PubSub, IAM, Kubernetes, GitHub Actions, Terraform - Cloud & Enterprise

**Client:** DUN & BRADSTREET

**Sep 2022 - Feb 2023**

**Role:** Sr. DevSecOps Engineer

**Project:** DevX Platform Migration - AWS to GCP

**Employer:** Atyeti IT Services Pvt Ltd

### Responsibilities:

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- Current state discovery of infrastructure on AWS.
- Designed cloud architecture for the corresponding state on GCP.
- Designed and developed a solution and blueprint to migrate the database from AWS DynamoDB to GCP Cloud Datastore and Cloud Firestore.
- Designed and developed infrastructure automation code and migration logic (in python) for end-to-end automation.

**Environment:** GCP - Cloud Datastore, Cloud Firestore, IAM, Kubernetes, Traffic Director, Cloud Storage, Cloud Function, AWS - DynamoDB, IAM, Lambda, EC2, Python, GitHub Actions, Terraform - Cloud & Enterprise

**Client:** CREDIT SUISSE

**Mar 2022 - Aug 2023**

**Role:** Sr. DevSecOps Engineer

**Project:** Titan - Azure Certificates & VMWare CloudServe

**Employer:** Atyeti IT Services Pvt Ltd

**Responsibilities:**

- Developed the architecture on Microsoft Azure to fetch and deploy SSL certificates from Venafi and deploy them onto Windows and Linux VMSS machines.
- Developed Terraform modules to create Microsoft Azure VMSS, Private DNS, Azure KeyVault, and Application Gateway over Nginx and envoy servers over Jenkins pipelines.
- R&D to import and manage on-prem VMWare machines with Terraform over the CloudServe VR Automation platform.

**Environment:** Azure - Key Vault, VMSS< Private DNS, VM, Terraform, Shell, Powershell, Jenkins, Venafi, Nginx, Envoy, Cloud Serve

**Client:** FACTSET

**Sep 2021 - Feb 2022**

**Role:** Sr. DevOps Engineer

**Project:** Ownership Collections

**Employer:** Atyeti IT Services Pvt Ltd

**Responsibilities:**

- Developed code in PowerShell to integrate pipelines between ServiceNow and Jenkins over GitHub webhooks.
- Developed and troubleshoot issues on python-based windows desktop applications.
- Analyzed and designed solutions for on-prem to AWS cloud migration of legacy Citrix-based applications.

**Environment:** AWS - EC2, Terraform, Packer, Jenkins, GitHub, ServiceNow, Python, Citrix

**Client:** A&E NETWORKS

**Oct 2020 - Aug 2021**

**Role:** DevOps Lead

**Project:** Cloud City Next Generation

**Employer:** Virtusa Consulting Services Pvt Ltd

**Responsibilities:**

- Collaborated with application teams to design a roadmap for modernization towards containerization on Kubernetes and Serverless architecture.
- Planned, designed, and developed Kubernetes clusters on AWS EKS.
- Involved with monitoring and alerting mechanisms for infrastructure and application and production support in case of incidents.
- Designed shift-right automation frameworks to empower development teams.

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- Designed enhanced high availability, security, disaster recovery, cost optimistic, cluster upgrade, and other configurations.
- Implemented CIS benchmarks and remediation on machines using chef.

**Environment:** AWS - EC2, EKS, IAM, S3, RDS, Serverless, Kubernetes, Docker, Terraform, Packer, GitHub, Python, Azure DevOps, Chef - Automate, Inspec, Cookiecutter, Datadog, Splunk, Shell, Powershell

**Client:** A&E NETWORKS

**Mar 2020 - Sep 2020**

**Role:** DevOps Lead

**Project:** DevOps BAU

**Employer:** Virtusa Consulting Services Pvt Ltd

## Responsibilities:

- Led the DevOps off-shore team on delivering projects, application-level infrastructure requirements, and troubleshooting issues.
- Designed and implemented cost optimization solutions on EC2, RDS, S3, CloudWatch, etc., ultimately saving approx. \$10,000 monthly.
- Designed and developed a shift-left mechanism for operationalizing DevOps mundane tasks to the operations team reducing workload by 75%.
- Involved with a security project on encryption of data at rest for EBS, RDS, DynamoDB, and S3 using KMS.
- Designed AWS cross-account access architecture and integrated reporting.
- Involved with capacity and deliverables planning on sprint and quarterly.

**Environment:** AWS, Serverless, Terraform, GitHub, Python, Azure DevOps, Chef - Automate, Cookiecutter, Datadog, Splunk

**Client:** A&E NETWORKS

**Jul 2019 - Feb 2020**

**Role:** Sr. DevOps Engineer

**Project:** Chef Redesign

**Employer:** Virtusa Consulting Services Pvt Ltd

## Responsibilities:

- Designed and developed base and wrapper chef cookbooks across all windows based EC2 instances for 30 applications.
- Designed and configured Microsoft SQL Server on EC2 for standalone and high availability disaster recovery failover clusters for DBS, JSS, and DBA using chef.
- Involved with building and managing chef and chef automate servers for production-grade and setup backup on a periodic basis.
- Involved with securing attributes storage and utilization by integrating chef databases with Azure Key Vault.

**Environment:** AWS, MSSQL Server, Terraform, GitHub, Python, Azure DevOps, Chef, Cookiecutter, Datadog, Splunk, Azure KeyVault

**Client:** A&E NETWORKS

**Dec 2017 - Jun 2019**

**Role:** DevOps Engineer

**Project:** A&E ASM

**Employer:** Virtusa Consulting Services Pvt Ltd

## Responsibilities:

- Developed terraform code and pipelines for infrastructure release based on architecture diagrams.
- Set up build and release pipelines for application code deployment for Java, .Net and JS on TeamCity, Jenkins, and GoCD respectively.

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- Developed automation scripts for operation activities on AWS like copying & sharing snapshots, executing post-refresh scripts on RDS, etc.
  - Migrated source code from SVN to GitHub.
  - Migrated CI/CD pipelines from TeamCity & Jenkins to Azure DevOps.
- Environment:** AWS, SVN, GitHub, Jenkins, Azure DevOps, GoCD, Terraform, Shell, Powershell

**Client:** CLARIVATE ANALYTICS

**Sep 2017 - Nov 2017**

**Role:** Java Developer

**Project:** Oracle - Postgres Migration

**Employer:** Virtusa Consulting Services Pvt Ltd

**Responsibilities:**

- Supported in R&D for migrating Oracle databases to Postgres.
- Developed basic java code for migrating data through automation.
- Involved in requirement gathering for the project with clients.

**Environment:** Oracle, Postgres, Java, SQL

**Client:** BRITISH TELECOMMUNICATIONS

**Jul 2017 - Sep 2017**

**Role:** Java Developer

**Project:** NGP

**Employer:** Virtusa Consulting Services Pvt Ltd

**Responsibilities:**

- Developed basic code in java for file-based operations, unit tests and debugged compilation code errors.
- Supported in R&D for Orient DB functions and documentation.

**Environment:** Java, Groovy, OrientDB

## EDUCATION & CERTIFICATIONS

- National Institute of Technology, Raipur, India — Bachelor of Technology, Mechanical Engineering (JUL 2013 - MAY 2017)
- [Terraform Certified Hashicorp Implementation Partner \(CHIP\)](#)
- [Google Cloud Certified Associate Cloud Engineer](#)
- [CKA: Certified Kubernetes Administrator](#)
- [Hashicorp Certified: Terraform Associate \(002\)](#)
- [AWS Certified Solutions Architect - Associate](#)