Chenna Kesava Kondapalli | Software & Cloud Engineer

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SUMMARY

Software & Cloud Engineer with 2 years of experience designing backend systems, APIs, and IoT telemetry integrations on AWS and Azure. Skilled in Python, Java, SQL, and Infrastructure as Code (Terraform, CloudFormation, Ansible) for automation and backend service deployment. Experienced in microservices (Docker, Kubernetes), CI/CD (Jenkins, GitLab, GitHub Actions), and network connectivity (SD-WAN, Cisco ACI) supporting secure real-time applications. Strong background in observability, database migration (Oracle, PostgreSQL), and resilience engineering to improve reliability and system efficiency.

TECHNICAL SKILLS

Programming & Scripting: Python, Java, SQL, Bash (automation scripting)
Frameworks & APIs: Spring Boot, GRPC, RESTful APIs, Thingworx, MQTT
Cloud Platforms & Infrastructure: AWS (EC2, S3, RDS, DynamoDB, Lambda, CloudWatch, IAM, Config), Azure (VMs, Storage, Active Directory, Monitor), Terraform, AWS CloudFormation, Ansible
Networking & Connectivity: SD-WAN, Cisco ACI, VPNs, Network Security, Disaster Recovery Architecture
Containerization & Orchestration: Docker, Kubernetes (EKS, AKS), Microservices Deployment
CI/CD &DevOps: Jenkins, GitLab CI, GitHub Actions, Infrastructure as Code (IaC), Workflow Automation, Linux Administration
Monitoring &Observability: AWS CloudWatch, Azure Monitor, Custom Dashboards, Alerting Pipelines, Incident Detection & Response
Security & Compliance: IAM Policy Design, Encryption Standards, AWS Config, Cloud Custodian, HIPAA, PCI DSS, Security Posture Validation
Resilience & Reliability: Chaos Engineering (Cloud Detour), Multi-Region Failover, Backup & Recovery Planning, High Availability Systems
Databases & Migration: Oracle to AWS Migration, PostgreSQL, RDS, DynamoDB, Database Optimization
Systems & Architecture: Object-Oriented Design (OOD), Systems Design, Algorithms
Version Control: Git, GitLab, GitHub

EXPERIENCE

Software Engineer Intern | Vertex Infocode| WY, USA **Aug 2025 - Present**
- Developed Python-based utilities and modular IaC components to spin up AWS environments for development and testing.
- Developed backend services that expose endpoints via REST and GRPC protocols to facilitate secure data exchange between cloud-based applications and IoT devices.
- Developed Python-based automation scripts and Terraform modules to provision AWS infrastructure, enabling faster, consistent deployments while supporting backend services across multiple teams.
- Prototyped and tested regional redundancy-based workflows in AWS by simulating various failure scenarios and testing service recoverability.
- Developed monitoring tools and CloudWatch visualizations to surface health information from edge devices and performance trends of backend services.
- Developed policy checks and configuration validation scripts to flag insecure cloud resources in CI/CD pipelines.

Software & Cloud Engineer | iLink Multitech Solutions | India **Apr 2021 - Jul 2023**
- Engineered AWS and Azure environments with compute, storage, networking, and database services while building IoT integration pipelines (Thingworx, MQTT) to support backend applications and edge telemetry.
- Developed cloud-native ingestion pipelines using MQTT, REST, and GRPC protocols to securely ingest data from edge devices and process it into PostgreSQL databases.
- Transformed legacy Oracle-based architectures into modern, AWS-based architectures, integrating PostgreSQL databases and Java/Python-based backend services to improve performance, reliability, and cost-effectiveness.
- Automated provisioning, configuration, and deployment processes using Terraform, CloudFormation, and CI/CD pipelines, minimizing manual effort and improving consistency in deployments.
- Conceptualized cloud-based monitoring and autoscaling strategies using CloudWatch and Azure Monitor, improving system performance while reducing infrastructure costs by ~25%.
- Configured production-ready security solutions, including IAM, encryption, and network segregation, while ensuring compliance with HIPAA and PCI-DSS regulations.
- Containerized application services using Docker and Kubernetes, providing a robust microservices-based application deployment model.

Cloud Engineer Intern| Mphasis | India **Aug 2020 - Mar 2021**
- Deployed and managed AWS and Azure environments, configuring networking, storage, and security while integrating Python- and Java-based applications with IoT telemetry for real-time processing.
- Automated provisioning with Terraform and Ansible, introducing Git/GitLab version control and debugging practices that reduced manual errors and accelerated deployment timelines.
- Transformed legacy systems into microservices and containerized platforms using Docker and Kubernetes, applying object-oriented design to improve scalability and maintainability.
- Designed CI/CD pipelines with Jenkins and GitHub Actions, embedding unit testing to enable faster releases, higher reliability, and reduced defect rates.
- Implemented monitoring and disaster recovery by combining CloudWatch with custom IoT telemetry pipelines (MQTT), ensuring backup, failover readiness, and cost-efficient system reliability.

EDUCATION

Masters in Computer Science **May 2025**
University of Central Oklahoma, OK, USA
Bachelors in Computer Science and Engineering **May 2021**
Vel Tech RangarajanDr.Sagunthala R&D Institute of Science and Technology, India

CERTIFICATIONS

Microsoft Azure - AZ-900, AI-900, DP-900