Chenna Kesava Kondapalli | Software & Cloud Engineer

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SUMMARY

Software & Cloud Engineer with 4 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 & Cloud Engineer | Vetex Infosoft Solutions| OK, USA **Dec 2024 - Present**

- Developed Python-based automation scripts and Terraform modules to provision AWS infrastructure, enabling faster, consistent deployments while supporting backend services across multiple teams.
- Implemented GRPC and RESTful APIs with SD-WAN and Cisco ACI to improve secure application-to-application connectivity within hybrid cloud and IoT environments.
- Strengthened disaster recovery posture by engineering two-region AWS failover processes and applying object-oriented design validation to ensure system availability during outages.
- Built monitoring dashboards and alerting pipelines in CloudWatch with custom telemetry scripts, giving team's deeper visibility into IoT edge performance and reducing issue detection time.
- Embedded compliance checks using AWS Config and Cloud Custodian with automated debugging and unit testing, ensuring secure configurations and early misconfiguration detection.
- Conducted chaos engineering simulations with the "Cloud Detour" tool, testing IoT telemetry and real-time system failures to validate recovery strategies and improve overall resilience.
- 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.
- 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.

Software & Cloud Engineer | |iLink Multitech Solutions| India **May 2020 - 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.
- Automated infrastructure builds with Terraform, AWS CloudFormation, and Python scripting, reducing manual work and ensuring deployments were scalable, consistent, and reliable across teams.
- Migrated legacy applications and Oracle workloads into AWS while integrating PostgreSQL and Java-based backend services, improving system stability, cost efficiency, and maintainability.
- Monitored performance through CloudWatch and Azure Monitor, applying OOD-driven scaling and tuning strategies to optimize resources and achieve 25% cost savings without reducing availability.
- Enforced IAM policies, encryption, and network safeguards to meet HIPAA and PCI DSS standards, embedding debugging and validation testing for secure production readiness.
- 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.
- Enhanced development pipelines by implementing Jenkins and GitHub Actions with Docker and Kubernetes, embedding unit testing to accelerate release cycles by nearly 50% with higher 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