

# Keerthish Kodali



## Sr. DevOps & Site Reliability Engineer

Versatile DevOps | SRE | Platform Engineer specializing in CI/CD, Cloud Automation, Infrastructure-as-Code, and Scalable System Reliability.

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14+ Yrs.  
Work Exp



6  
languages



Served 7  
companies

## PROFILE SNAPSHOT

Senior DevOps and Cloud Engineer with 14+ Years of experience in automating infrastructure and optimizing CI/CD pipelines. Highly skilled in deploying and managing Azure / AWS enterprise solutions, specializing in Kubernetes and containerized applications for robust, secure, and scalable cloud environments. Demonstrates successful integration of infrastructure-as-code and cutting-edge technologies like GenAI to lead cross-functional teams in developing reliable machine learning inference systems and sophisticated chatbot backend solutions. Aims to leverage this comprehensive expertise to elevate efficiency and system reliability in target site operations.

## Key Achievements

- Automated complex CI/CD pipelines using Jenkins (scripted and declarative), Groovy shared libraries, and multibranch workflows, increasing deployment velocity by over 50%.
- Designed and deployed secure, scalable cloud environments using Azure services such as AKS, VMs, VNets, Key Vault, Azure Monitor, Storage, Active Directory, SQL Database, PostgreSQL, MongoDB and Azure DataBricks.
- Containerized application deployments with Docker and orchestrated workloads using Azure Kubernetes Service (AKS), improving infrastructure scalability and resilience.
- Streamlined infrastructure provisioning using Ansible, Chef and Terraform reducing configuration time and manual errors across environments.
- Deployed trained machine learning models as inference APIs within Java and Node.js applications, automating delivery to Azure VMs and App Services using Jenkins pipelines.
- Enabled production-grade chatbot solutions by integrating ML models into Azure Bot Service infrastructure, supporting secure, scalable, and low-latency user interactions.
- Supported multi-environment ML application delivery, improving performance, stability, and traceability across development, QA, and production stages.
- Built and deployed Java/J2EE and Node.js applications through Jenkins pipelines integrated with Maven and Git-based version control.
- Integrated Azure DataBricks workflows into Jenkins pipelines for automated data processing, enhancing development and deployment efficiency.
- Hands-on experience with HDInsight (Hadoop) cluster monitoring and operational support using Ambari and Azure, including Spark/YARN service management and performance troubleshooting.
- Led a geographically distributed DevOps team of 5 (onsite and offshore), ensuring delivery excellence, operational readiness, and infrastructure uptime.
- Applied Generative AI in DevOps through Prompt Engineering (certified by Vanderbilt University), improving automation, documentation, and CI/CD workflow enhancements.
- Implemented proactive observability with Azure Monitor, Prometheus, and Airflow, defining SLIs/SLOs to meet reliability goals and reduce MTTR. Led incident response and post-mortem reviews for production outages, improving system resilience and recovery time.
- Created Grafana dashboards to monitor Event Hub and Cosmos DB metrics via Azure Monitor, enabling real-time alerting and improved reliability tracking.
- Automated tasks and custom deployment flows using PowerShell, Ruby, and Groovy scripts for maximum efficiency.
- Managed hybrid release and incident workflows using Jira, ServiceNow, and Remedy to streamline team collaboration and issue resolution.
- Ensured business continuity by managing backup and recovery strategies using NetBackup and Backup Exec.
- Strong understanding of Agile, DevOps, and SDLC best practices to support continuous delivery and team collaboration across large-scale enterprise projects.

## TECHNICAL SKILLS

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Cloud Platforms: AWS, Azure | CI/CD: Jenkins, GitHub, Maven, Gradle | Containerization: Docker, Kubernetes, Helm  
IaC: CloudFormation, ARM Templates | Configuration Management: Ansible, Chef, Puppet | Monitoring & Logging: Grafana, Prometheus, Splunk, ELK Stack, Azure Monitoring | Version Control: Git, GitHub, Bitbucket | Programming: Python, Bash, RUBY, PowerShell, YAML, Java | Artifact Management Tools: Nexus, JFrog | Networking: DNS, TCP/IP, Load Balancers, Virtual Networks | Automation: Scripting, Deployment Pipelines, Provisioning Tasks | Collaboration: JIRA, Confluence, Agile Processes | Operating systems: Linux, Unix, Windows | Databases: SQL, My SQL, Oracle, Mongo Db, PostgreSQL, Redis (Azure Redis Cache) |

## WORK EXPERIENCE

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### Sr DevOps / CI/CD Platform Architect

Teachers Insurance and Annuity Association of America – (Remote)

Oct 2025 - Present

#### Responsibilities:

- Provided architectural oversight and escalation support for enterprise CI/CD workflows built on CloudBees CD/RO.
- Led platform-level RCA for deployment and pipeline execution failures, guiding resolution paths across application, platform, and infrastructure teams.
- Governed AWS EC2-based build and deployment agents, overseeing upgrades, patching strategy, and agent health.
- Supported CI/CD platform reliability and standardization during ongoing delivery initiatives.

### DevOps Lead / Cloud / Platform Engineer

Kaiser Permanent – Pleasanton, CA

Apr 2018 – Sep 2025

#### Responsibilities:

- Participated in **AGILE/SCRUM methodologies** to enhance project execution, improving team collaboration and project delivery timelines
- Worked extensively on version controls like **Git**, ensuring code integrity and facilitating seamless collaboration among development teams
- Used Groovy scripts for **CI/CD pipeline builds**, and actively involved in the entire Pipeline setups and **Jenkins Job configurations**
- Architected and modernized enterprise CI/CD pipelines for deploying **Java-based applications** to Azure **HDInsight edge nodes**.
- Transitioned legacy Freestyle Jenkins jobs with **Maven** and **Artifactory integration** into a unified Declarative pipeline, dynamically triggering **Ansible roles** for secure artifact promotion, environment-specific deployments, certificate-based HTTPS enablement, and effective secrets management via **Ansible Vault**.
- Managed and supported **Azure HDInsight (Hadoop) Spark and Kafka clusters**, including provisioning and Ambari-based monitoring. Analyzed Spark logs and troubleshoot issues across **YARN, Hive, and Spark** services, which improved data processing reliability and efficiency.
- Performed **HDI cluster scaling** via Azure Portal and ensured reliable data processing pipelines in collaboration with developer teams.
- Designed and automated the end-to-end deployment of **Apache Airflow** using **Ansible**, implementing **Celery Executor** for distributed task management. Maintained and supported the solution to ensure high availability and team-wide adoption, which streamlined workflows and reduced deployment times across all stages of the SDLC.
- Developed **Ansible roles** to automate **Python package installations** and **RabbitMQ setup** on both **Red Hat** and **Ubuntu** systems, including user creation, virtual host configuration, systemd service management, SSL certificate integration, and environment-specific variable handling via Ansible Vault.
- Defined **Service Level Indicators (SLIs)** and contributed to **SLO-based monitoring and alerting** for AKS and Airflow services to maintain high availability across production environments.
- Worked on **Jenkin files** and Groovy scripts in building application on **Docker image containers** and to store over **artifactory** and deployed to multiple **Azure Kubernetes service (AKS)** clusters
- Created and maintained **Azure Event Hubs** for streaming workloads; implemented **custom alerts** for outages and low message counts to ensure uninterrupted data flow, supporting seamless **Fitbit sync** and real-time application performance.
- Designed **Grafana dashboards** using **Azure Monitor** data to track Fitbit Event Hub message flow and Cosmos DB usage, with threshold-based alerts supporting production **SLO objectives**.
- Created Jenkins pipeline to deploy workflows to **Azure DataBricks**, enhancing deployment efficiency and reliability, and maintained Azure Databricks environments.
- Automated **Databricks workflows** using CI/CD pipelines with tools like **Jenkins** and **Ansible**, ensuring seamless integration and deployment of Spark jobs.

- Managed and monitored Databricks **SQL Editor operations**, optimizing query execution for real-time and batch processing workloads.
- Developed custom **notebooks and jobs** to process and analyze large datasets, improving ETL pipelines and reporting workflows.
- Designed and implemented **Jenkins pipelines** to automate the deployment of **Azure App Services, Bots**, and associated front-end services, ensuring seamless delivery to production and non-production environments.
- Collaborated with **AI/ML development** teams to operationalize trained models embedded in Java and Node.js services, deploying them as REST APIs to Azure infrastructure.
- Automated CI/CD pipelines for **ML-based services** including **chatbot** backends, integrating Jenkins, Ansible, and YAML-based secrets management for seamless deployment.
- Deployed **Azure Bot** applications connected to model inference endpoints, integrating **Azure Redis Cache** for session persistence and latency optimization. Ensured stable performance using **Azure Front Door** and active monitoring tools.
- Contributed to end-to-end model delivery by aligning infrastructure, runtime environments, and deployment pipelines to meet real-time **chatbot service** requirements. Supported Azure-hosted inference systems for NLP-based chatbots, maintaining high availability, **API uptime**, and rapid recovery in multi-environment deployments.
- Implemented **high-availability strategies** using **Azure Load Balancer** (for Airflow web servers on VMs/edge nodes) and **Azure Front Door** (for ML-powered bot services), ensuring reliable traffic distribution, global scalability, and fault tolerance across mission-critical services.
- Led a **DevOps team** of 5 engineers across onsite and offshore locations; provided technical guidance, hands-on training, and workflow supervision to ensure smooth execution of all DevOps operations with minimal production disruptions.
- Led **release planning** and coordination for **DevOps-driven deployments**; managed end-to-end release cycles including **pipeline readiness**, approvals, **environment validation**, and production cutovers to ensure smooth and timely deliveries.
- Adopted **GitHub Actions** and implemented a reusable shared workflow to automate application deployment, contributing to the ongoing transition to modern, **cloud-native CI/CD** tooling.
- Created and worked on **Ansible vaults and KP Configs** in storing sensitive data
- Worked on creating and updating **ARM templates** and integrated with Jenkins for creation of **Azure services**.
- Updated and synchronized **Azure Key Vault** using **Jenkins pipelines**, enhancing security and efficiency in cloud operations.
- Automated **Java/J2EE and Node application** builds and deployments across multiple environments using **Maven**, improving deployment speed and reliability.
- Managed **YAML files** and encrypted sensitive information using **Ansible Vault**, ensuring secure deployment across environments by decrypting data during Jenkins jobs.
- Created, tagged, and merged release branches using **GitHub**, streamlining version control and collaboration.
- Configured and troubleshoot build, deployment, and smoke test issues, ensuring application stability and performance.
- Enhanced and implemented **the rollback** in-case of the deployment failures or smoke test failures to ensure the stability of the environment.
- Led incident response efforts during deployment failures, conducted **root cause analysis (RCA)**, and documented **post-mortem findings** to inform **rollback strategies** and improve future releases.
- Monitored **Unix/Linux servers** by verifying logs, checking CPU and memory usage, and ensuring application performance using Java Melody.
- Administered tools by **installing, configuring, upgrading, managing** user access, and integrating Jenkins, JIRA, Confluence, Artifactory, and Bitbucket with other tools.
- Explored Tekton and OpenShift for GitOps pipelines, evaluating their potential to streamline deployment processes and improve automation.

## Sr. DevOps Cloud Engineer

Align Technology – San Jose, CA  
May 2016 – Mar 2018

### Responsibilities:

- Developed reusable Terraform modules to provision AWS infrastructure (EC2, IAM, VPC) supporting Chef-managed applications; improved infrastructure consistency and reduced provisioning time by 40%.
- Contributed to the continual roll-out of **Chef-based deployment automation** across multiple Test and Production environments, enhancing deployment efficiency.
- Ensured system reliability and performance by managing **MES** maintenance and administration, leading to a 20% reduction in downtime.
- Developed **cookbooks** for automation of MES application deployments, streamlining deployment processes.
- Worked on **WSO2** cookbook and written recipes for automation of User management, roles and subscriptions to APIs at **WSO2 API Store**.
- Contributed on **Ansible playbooks** for deployment of few internal applications onto **heroku**.
- Ensured uptime and resolved issues in Dev, QA, and Production environments, supporting development and deployment infrastructure across more than **1000 servers**.
- Owned observability, incident handling, and reliability automation for cloud-hosted services running on AWS EC2/VPC/IAM with Terraform.
- Configured **Logic Monitor** to enhance system monitoring capabilities, leading to improved detection and resolution of system issues.

- Managed configuration using **Chef, Ruby, and Python**, improving system stability and reducing deployment errors
- Collaborated with the team to migrate **Chef Cookbooks to Ansible**, enhancing automation efficiency.
- Defined, configured, and scripted build, metric, test, deploy, and release steps of deployment pipelines using Jenkins, improving deployment speed and reliability.
- Deployed and maintained applications using **Docker**, ensuring seamless **multi-container operations** and reducing downtime.
- Wrote **CloudFormation templates** and deployed AWS resources, streamlining resource management and improving deployment efficiency.
- Worked on **AWS EC2, IAM, S3, EBS, Elastic Load balancer (ELB)**, auto scaling group services.
- Created **Amazon EC2 instances** using command line calls and resolved common instance issues, improving system uptime and performance.
- Deployed applications onto **AWS IIS web servers**, ensuring seamless integration and improved application availability.
- Created cookbooks and deployed using Chef to provision and manage **AWS EC2 instances, volumes, DNS, and S3**, leading to more efficient resource management.
- Developed a cookbook for installation management of **Logic Monitor server**, enhancing monitoring capabilities and system reliability.

## DevOps Engineer

Verizon Telematics – Atlanta, GA  
Nov 2015 – Apr 2016

### Responsibilities:

- Administered **Oracle Fusion Middleware 12c**, ensuring system stability and performance.
- Automated the installation and configuration of **Oracle Database and SOA suite 12c** using **Puppet** Programming, reducing setup time and minimizing errors.
- Automated build and deployment processes using **Docker containers and Puppet**, enhancing deployment efficiency and consistency.
- Set up Docker environments by creating new images and retrieving images from **Docker Hub**, improving build processes and deployment speed.
- Configured **SOA and OSB servers** in **WebLogic Admin server console**, ensuring optimal server performance and reliability.
- Maintained **VMware servers** to ensure optimal performance and reliability, resulting in reduced downtime and improved system efficiency.
- Created **CloudFormation templates and deployed AWS resources**, enhancing infrastructure scalability and efficiency.
- Integrated **JDeveloper** with the **Gerrit** code base, streamlining the code review process.
- Developed Build and Deployment scripts using **Maven** and **Ant** as build tool.
- Automated the build and deploy of **SOA and OSB composites** using Jenkins, leading to faster deployment times and fewer manual errors.
- Created **Jenkins** jobs for **unit and functional testing** scripts that triggered alongside and after build and deploy jobs, enhancing the testing process.
- Managed results in **Jenkins Dashboard** view using Plugin Dashboard View and also added **Sonar Dashboard** view into Jenkins.
- Used Jenkins & Puppet to perform automated CI Builds and Deployments.
- Automated end-to-end processes for build, deployment, and testing on SOA and OSB composites, increasing efficiency and consistency.

## Sr. Systems Analyst

HCL Technologies – Chennai, India  
Nov 2011 – Apr 2014

### Responsibilities:

- Provided IT infrastructure support to HCL's client AstraZeneca by proactively monitoring its IT infrastructure environment, ensuring system stability and performance.
- Monitored servers using tools like Tivoli Enterprise Console, HP Open View, and HP SIM, leading to early detection and resolution of potential issues.
- Monitored and managed batch jobs through AUTOSYS, ensuring timely completion and reducing downtime.
- Created and updated tickets in REMEDY, facilitating efficient issue tracking and resolution.
- Prepared daily reports to provide insights into system performance and support decision-making processes.
- Monitored daily backup status and server backup health using Azure Monitoring, generating daily reports to ensure system reliability.
- Logged into servers remotely to troubleshoot backup failures and resolved tickets, improving system uptime and user satisfaction.

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- Logged into TSM Backup servers using Putty to check backup health status, ensuring data integrity and availability.
- Performed Windows patching activities to enhance system security and performance.
- Maintained and updated incident dashboards using JIRA, providing clear visibility into incident trends and resolutions.
- Monitored network and servers for software and hardware failures, ensuring system reliability and minimizing downtime.
- Monitored disk space and processes on servers and workstations using Unix tools, ensuring optimal performance and preventing system overloads.
- Sent daily reports to the manager using Confluence, providing insights into system performance and facilitating informed decision-making.

## Network Engineer

Doctus Software Solutions – Hyderabad, India  
Aug 2010 – Nov 2011

### Responsibilities:

- Installed and maintained the Local Area Network at the workplace, ensuring reliable connectivity and minimizing downtime
- Performed cross platform audits of Active Directory (AD) objects and user permissions.
- Managed User Accounts on Windows NT and UNIX Platform (Creation, Deletion, Permissions, and VPN Access).
- Developed organizational units in Active Directory (AD) and managed user security with group policies.
- Created and maintained email addresses and distribution lists in MS Exchange.
- Compiled data to assist technical writers with IT new hire manuals and prepared data to report to testers for system enhancements.
- Managed user profiles by assigning rights on resources, ensuring secure access and compliance with company policies
- Performed daily, weekly, and monthly backups of all client PCs, ensuring data integrity and availability
- Provided technical support to the entire organization on software and hardware, improving operational efficiency and reducing downtime
- Updated operating systems, antivirus, and service packs, ensuring systems were secure and up-to-date
- Configured and updated firewall settings for users, enhancing network security and user access control
- Installed and upgraded hardware and software, improving system performance and reliability
- Repaired and maintained desktops, ensuring minimal downtime and optimal functionality for users
- Managed company documents using MySQL, ensuring data integrity and easy retrieval for team members

## System Admin

World Info Tech – Hyderabad, India  
July 2009 – July 2010

### Responsibilities:

- Managed user profiles by assigning appropriate rights on resources, ensuring secure and efficient access.
- Performed daily, weekly, and monthly backups of all client PCs, ensuring data integrity and availability
- Provided technical support to the entire organization on software and hardware, improving system reliability and user satisfaction
- Updated operating systems, antivirus, and service packs to maintain system security and performance
- Installed and upgraded hardware and software, ensuring systems were up-to-date and functioning optimally
- Repaired and maintained desktops, ensuring optimal performance and reducing downtime by using diagnostic tools and techniques
- Managed company documents using AWS and CloudFormation, improving document retrieval efficiency and ensuring data security

## EDUCATION & PROFESSIONAL QUALIFICATION

### Master's in Computer Science

San Francisco Bay University - 2015

### Bachelor's in Computer Science Engineering

Jawaharlal Nehru University – 2009

## CREDITS & CERTIFICATIONS

### Prompt Engineering for ChatGPT

Vanderbilt University

✓ Issued: Jan 2025

Show credential 

## MANAGEMENT SKILLS

### Team Leadership & Management

- Goal Setting
- Leadership & Delegation
- Performance Management

### Communication & Collaboration

- Effective Communication
- Cross-functional Collaboration
- Relationship Building

### Analytical and Problem-Solving

- Data Interpretation
- Decision Making
- Solution Development

Signature

Keerthish Kodali