

# DEEPIKA THOTA

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**Email:**

## **Professional Summary:**

- Over 10+ years of professional experience with complete Software Development Life Cycle (SDLC) process including Designing, Developing, Testing and Implementation.
- Over 6+ years of professional experience in **DevOps, Build, Release and Configuration Management on Linux** Distros (**RHEL, Cent OS, Ubuntu**) based systems, working on different environments including **Dev, QA, UAT and Production environments**.
- Over 2+years of experience in Backend development (Core Java, Oracle Database) in Windows and Linux Platforms.
- Experience in all Phases of Software Life Cycle with emphasis on Designing, Developing, Implementation, Deployment and Support of Distributed Enterprise Scalable, Secure and Transactional Applications.
- Expertise in developing Automated solution for entire **build** and **release** process and implementing effective methods for **Continuous Integration** and **Continuous Delivery** platforms.
- Implemented CI/CD Automation Process using various CI Tools like **Jenkins** and CD Tools like **Docker**.
- Proficient with **Python, Power Shell, Groovy** and **Bash** Scripting.
- Implemented a Continuous Delivery pipeline with **Docker, Jenkins** and **Bit Bucket/SVN** and **AWS**.
- Used **containerization** technologies like Docker for building clusters for **orchestrating** containers deployment.
- Implemented a **Continuous Delivery pipeline** with **Docker** and **AWS**.
- Experience working on several Docker components like **Docker Engine, Docker Hub, Docker Machine, Compose** and **Docker Registry**.
- Experience in creating and maintaining infrastructure for Applications in **AWS** using **CloudFormation** Templates and **Terraform** Scripts.
- Experience in Provisioning and Configuration Management tools like **Ansible, Chef** and **Puppet**.
- Worked on deployment automation of all the micro services to pull image from the private Docker registry and deploy to **Docker swarm** clusters using Ansible.
- Integrated **Jenkins** with various DevOps tools such as **Nexus, SonarQube, Puppet, Chef, Ant, Maven, Nagios, Git, GitHub, TFS, and JIRA** etc.
- Experienced in database technology such as **Oracle (SQL, PLSQL), SQL Server, MySQL, and PostgreSQL** and **NoSQL** databases such as **Apache Cassandra, MongoDB**.
- Developed automated process for code builds and deployments using **Jenkins**, Ant, Maven, Sonar type Nexus, Shell Script, Perl, Java.
- Experience is using **JBOSS, Apache TOMCAT, HTTP2, Web logic** web servers for deployments.
- Experience working with JIRA to keep track of all the ongoing tasks and maintain bug resolutions.
- Involved in the analysis and troubleshooting of issues which are tracked through VSTS.
- Collaborated with different teams to achieve the work force and escalations to meet the requirements
- Good Knowledge on automate deployment for SaaS based application on cloud using Azure,

Pivotal Cloud Foundry.

- Experience working with the Version control tools such as **GIT** to track changes, code management involving concepts like Branching, Merging and Tagging.
- Installing and configuring the applications on Containers using Dockers (Docker Engine, Docker hub) and implement **DockerSwarm**, **Docker Compose** and **Kubernetes** for the Container orchestration purpose.
- Experience with Clustering of Docker containers using Kubernetes (**aws** kubectl, minikube, kubeadm).
- Experience with package management tools like **Helm** in Kubernetes.
- Experience in implementing **AWS** Security features like **IAM**, Detective controls, Infrastructure protection, Data Protection, Incident Response on cloud and its pipelines.
- Experience in **AWS** Services like **EC2, EBS, and RDS, Auto-scaling, Load balancers, S3, Route53, VPC, ECS, EKS, Lambda** and other services.
- Excellent communication skills that enable collaboration and integration between Dev roles and Ops roles. Highly skilled in deploying the application server clustering (both vertical and horizontal) environments for high availability, failover functionality and new features like apache load balancing.
- Good working knowledge of client-server architecture. Ability to work effectively and efficiently in a team or individually with excellent interpersonal and communication skills, also highly motivated and adaptive with ability to grasp things quickly.

### **Technical Summary:**

Operating Systems	RHEL 5.x/6.x/7, CentOS 5.x/6.x/7, Ubuntu, Fedora, Windows, Linux 10.x/11, flavors of Linux/Unix. Elastic Beanstalk, Elastic Load balancer (ELB)
Networking	TCP/IP, UDP, DNS, DHCP, SSH, FTP, SMTP, HTTP, HTTPS, POP, POP3, Telnet.
Database	MYSQL, DB2, Oracle 10g/9i/8i, Sybase, MS Access
Cloud platforms	<b>AWS</b> , Microsoft Azure, Google Cloud Platform.
Virtualization platforms	Virtual Box, VMware, Xen Hypervisor, Vagrant
Scripting languages	Bash, <b>Python</b> , PowerShell, JSON,YAML, HTML, XML.
Containerization and Orchestration	Docker, Dockerhub, Docker compose, Docker swarm, Kubernetes, ECS, EKS in <b>AWS</b> , ACR, AKS in Azure.
Web and Application Servers	Apache Tomcat, JBoss, Web Logic, WebSphere MQ,, IBM HTTP Server, IBM Glassfish, Microsoft IIS, Ngnix
Configuration Management/ <b>Build</b> tools	Ansible, Chef, Puppet, ANT, Maven, TFS,GIT, SVN, Bit Bucket, <b>Jenkins</b> ,
CI/CD Tools	<b>Jenkins</b> , Nexus, <b>Jenkins</b> Pipelines, CodeBuild, CodePipeline, CodeCommit, CodeDeploy in <b>AWS</b> .

### **PROJECT SUMMARY**

**Client: Citi Bank, Tampa, FL**  
**2021**

**Nov'19-August**

**Role: Sr. DevOps/**AWS** Consultant**

### **Responsibilities:**

- Set up Infrastructure to servers in **AWS** Cloud Platform.
- Automate the set up of infrastructure to servers in **aws** using Terraform, CloudFormation and Ansible.
- Create various CloudFormation (CFN) templates and nested stacks to implement IAAC(Infrastructure As A Code).
- Create Terraform Scripts to implement cross platform
- **Build** servers/instances in **AWS** Cloud, import/ attach volumes, create security groups, auto-scale the instances, use load balancers to distribute workloads within the instances in a defined virtual private connections.
- Create Docker images and run containers using Dockerfiles.
- Migrate web applications on **AWS** Cloud using RDS, Elastic cache, Amazon MQ, CloudFront, Route53, ELB, EFS, S3, SNS, EC2 and other services per requirements.
- Created various cloud Formation Templates and stacks for continuous Integration to launch multiple **AWS** services (EC2, ELB, Auto-Scaling) using JSON/YAML.
- Created various nested stacks using CloudFormation Templates to automate infrastructure set up in **AWS** Cloud Platform.
- Monitored various metrics like CPU Utilization, Swap Usage, Database connections, Current Connections, Read IOPS/Write IOPS etc. using Cloud Watch on different services like EBS, Elastic Cache, RDS, ELB etc.
- Implemented Continuous Integration (CI) of Java/Web applications on Cloud using services like CodeCommit, CodeBuild, Sonar Cloud, S3 bucket, CodeArtifact.
- Implemented Continuous Deployment (CD) of the applications using CodeCommit, CodeBuild, CodePipeline, CodeArtifact, SNS, CodeDeploy, Elastic Beanstalk, RDS.
- Set up Cloud Stack for project using Ansible. Automate all services like Tomcat, Memcached, RabbitMQ, MySQL with Ansible.
- Used **python** for Server related tasks on remote systems and **python**-boto module to interact with **aws** services such as creating a connection to S3 buckets, EC2 Instances, EBS, Snapshots, attach EIP to an EC2 instance and other boto scripts.
- Created **Jenkins** Pipeline to support the deployment process. Implemented Continuous Delivery with **Jenkins** and Ansible in the mix of pipelines.
- Set up Kubernetes cluster for prod containers and set up production grade Kubernetes cluster to host web apps using kops, Kubernetes, EKS on cloud, **aws** kubectl and others.
- Involved in the set up of entire web application java stack on Kubernetes cluster using docker hub, ingress, pod, configMap, Secret, Persistent Volume, and Deployment.
- Implement CI/CD for docker containers of docker hub and Kubernetes and implement continuous delivery of docker changes to Kubernetes pods.
- Create CloudFormation and Terraform Templates to automate process of provisioning (creating, updating and deleting resources) with the infrastructure in **aws**.
- Maintaining the **Jenkins** server which is integrated with Open shift Pods. Created groovy scripts to automate the email sending procedure. Integrated Slack with the **Jenkins** Job for alerting and monitoring.
- Integrated **Jenkins** with various DevOps tool like Ansible and used CI/CD system of **Jenkins** on Kubernetes container environment, utilizing Kubernetes and Docker for the runtime environment for the CI/CD system to **build** and test and deploy.
- Worked on Continuous Integration CI Server and Implemented **Build**/Deploy automation Server utilizing CI Technologies like **Jenkins**/Hudson, GIT, JIRA and Selenium. Created groups, assigning roles, SSL Certificates, policies and permissions using IAM service.
- Utilize Jira for issue reporting, status, and activity planning. Performed Builds for various Environments like QA, Integration, UAT and Production Environment.
- Collaborate with the Development, Project Management, and Product Management teams to align projects, releases, patches, and other efforts. Evolve and automate our processes to provide increased flexibility related to the development and testing of multiple simultaneous

projects.

- Log Clearing, Triaging and patching the Microservices when required. Integrating Smoke test and Health check to the **Jenkins** pipeline to ensure the server is fully functional.
- Good knowledge on Prometheus, Grafana, Kafka, Azure Cloud, Google Cloud, Private Cloud Foundry, **AWS** Cloud technologies.

Environment: Docker, Ansible, Kubernetes, **Python**, Ansible, Terraform, **Jenkins**, Maven, **Jenkins**, **AWS**, SSL, GIT, JIRA, Linux. Ansible, Jira, Jenkins, ActiveMQ, Queue Listener, Tomcat, **AWS**, RHEL 7.x/8.x

**Client: FedEx, Pittsburg, PA**  
**Aug'19**  
**Role: DevOps Engineer**

**Jan'18-**

### **Responsibilities:**

- Involved in Supporting and Development of CI/CD Automation to multiple sterling applications on to **AWS**. Extensively worked on **Jenkins** for continuous integration and for End to End automation for all **build** and deployments.
- Automated whole management process and achieved required state of environment by using configuration management automation tools (Ansible) in creating continuous delivery systems. Worked on incidents during **build** and deployment process to remove any blockers for the **release** and development process.
- Configured and maintained **Jenkins** and Docker for Continuous Integration and end to end automation of all **build** and deployments, also have good knowledge on CodePipeline and Code Deploy as **release** automation solution. Building the **AWS** Infrastructure using VPC, EC2, S3, Route 53, EBS, Security Group, Auto Scaling, and RDS in CloudFormation.
- Developed automation framework for Application Deployments to the cloud environments. Created **python** and shell scripts for log clean up to generate management reports. Responsible for creating scripts to automate building infrastructure which provisions a complete environment as configuration.
- Involved in support projects of building/maintaining Docker container clusters managed by Kubernetes, Linux, Bash, GIT, Docker. Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to **build**, test deploys. Created **Jenkins** slave in **AWS**, **Jenkins** slave AMI, **Jenkins** slave AMI which contains common tools like **AWS** CLI, Ansible, **Python** Boto API, **AWS** module installed on this AMI and the Java, git client, maven plugin.
- Implementing DevOps, Continuous **Build** and Continuous Integration/Deployment processes, combining and automating tools and rapid feedback for both development and operations teams. Created the jobs using **Jenkins** DSL scripts and deployed the **build** jobs to SharePoint windows servers and also to the Linux servers.
- Created GIT configuration record for builds using derived objects generated during **build** audit process. Integrated Ansible to manage all existing servers and automate the **build**/configurations of new servers. Involved in setting up JIRA as defect tracking system and configured various workflows, customizations and plugins for the JIRA bug/issue tracker.
- Troubleshoot and resolved **Build** failures due to bugs in source code stabilizing the **build** process by triggering **Jenkins** Code Review job. Coordinated **Release** effort amongst various teams (Integration, QA, Testing, and Business Analysis) in geographically separated environment.

Environment: Ansible, **Python**, Bash, GIT, **AWS** (VPC, EC2, S3, Route 53, EBS, Security Group, Auto Scaling), GIT, **Jenkins**, Maven, Jira, Linux.

**Client: John Wiley Inc, VirtusaPolaris (Hyderabad, India)**  
**Oct 2014 - July 2017**  
**Role: Build and Release Engineer.**

**Duration:**

**Responsibilities:**

- Responsible for managing the deployments to various environments such as QA, UAT, Staging, Production.
- Collaborated with the Development, Quality Assurance, Publishing and other external teams for the release coordination.
- Hands on in all the production fix releases, weekly/monthly releases and roll-backs and other bug fixes if any.
- Involved in creation of CI and CD pipeline Using Jenkins (Jenkinsfiles), Nexus, Git, etc to improve the efficiency and produce or release bug free or highly effective applications to the end users or customers.
- Used Jenkins and Maven to automate the build and deployments for Java based projects and stored the binaries of the projects in Nexus or JFrog Artifactory.
- Responsible for creating and deploying builds on various WebLogic environments, testing in build environment and release to test team on scheduled time or given deadlines.
- Actively involved in the troubleshooting of issues during the build, integration and deployments of the code.
- Troubleshooting issues which comes while build/deploy or during various testing runs. Deployed Artifacts into Tomcat/WebLogic servers.
- Coordinated with the QA and other teams to facilitate verification of releases to initiate multiple builds at a single point of time.
- Maintain daily backups for precondition schemas to avoid data loss. Performing basic DBA tasks for non-production environments
- Managed build results in Jenkins and deployed using workflows.

**Client: BACS (BA Continuum Solutions India), Hyderabad, India**  
**Oct 2011 - July 2013**  
**Role: Sr. Software Engineer (Backend Developer)**

**Duration:**

**Responsibilities**

- Understanding on E2E Implementation of the project
- Analyzing and Modification of database based on requirement of screen changes in Applications.
- Created database objects (tables, views, sequences), plsqlobjects (procedures, functions, cursors and triggers).
- Involved in modifying various existing packages, procedures, functions. Developed Packages, Stored Procedures, and Cursors as per the requirement.Used different sub queries, Joins, nested queries as per requirements,
- Development of Adhoc Universes using BO (Business Objects Reports) and developing reports like DESKI/WEBI reports.
- Responsible for create and maintain customer master data for ICON (InContact) Application Project.
- Load data into Staging Database using SQL Loader(sqlldr), SQL developer(import and export utilities)
- Perform Data Transformation as per new system in Literatum in Common Data Model.
- Involved in ETL activities like extracting and Loading of data using UTL\_FILES, SQLLDR.

- Involved in Data Loading, Pumping to Staging Database, involved in Data Migration, and Testing.
- Perform ETL (Extraction, Transform and Load) on Existing System to New System
- Write DB Queries to fetch (extraction) data from Existing System.
- Involved in **Release** and Change Management by redefining processes and implemented tools for software builds, patch creation, source control, and **release** tracking and reporting on Linux platforms.
- Involved in deployment of weekly builds and **Release** candidate builds to multiple environments.
- Provided extended support to development and QA team for troubleshooting **build** failures by keeping track of **build** logs and communicating the same effectively.
- Assisted QA team to monitor post deployment activities and encouraged reporting and feedback process

**Process: BACFSC HL & LAS (BACS), Hyderabad, India**

**Duration: Oct 2008 - Sep 2011**

**Role: Sr. Operations specialist.**

**Responsibilities:**

- Worked as Operations Specialist for Non-IT sector (Bank Operations) in Home Loans and Insurance Division.
- Lead team of 5 on internal project, ASR database.
- Worked on various POCs, BPRs, and JDICs in the project.
- Trained batches and individuals on different process flows and queues in the process.
- Conducting Certification programs/ tests, SBS reviews, feedbacks, training programs.
- Been the process trainer for new Joinees. Interacting with LOB (Line of Business) and contractors for resolving queries and disputes.
- Exception handling and preparing feedback processes.

# Deepika Thota

- DeLand, FL, US

## Contact Information

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## Education

- **Bachelors** | Computer Science Engineering

## Skills

- **software** - 10 years
- **apache maven** - 7 years
- **apache tomcat** - 7 years
- **continuous integration** - 7 years
- **devops** - 7 years
- **git** - 7 years
- **jenkins** - 7 years
- **linux** - 7 years
- **python** - 7 years
- **troubleshooting** - 6 years
- **ansible** - 5 years
- **aws** - 5 years
- **docker** - 4 years
- **database** - 3 years
- **kubernetes** - 3 years
- **terraform** - 3 years
- **operations** - 4 years
- **software deployment** - 4 years
- **software release life cycle** - 5 years
- **java** - 3 years

## Work Preferences



- Desired Work Settings: No Preference
- Likely to Switch: False
- Willing to Relocate: True
- Travel Preference: 50%
- Preferred Location:
  - Orlando, FL, US
  - Tampa, FL, US
  - Jacksonville, FL, US
- Work Authorization:
  - US
- Work Documents:
  - Employment Auth. Document
- Security Clearance: False
- Third Party: False
- Employment Type:
  - Full-time
  - Part-time
  - Contract - Corp-to-Corp
  - Contract - Independent
  - Contract - W2
  - Contract to Hire - Corp-to-Corp
  - Contract to Hire - Independent
  - Contract to Hire - W2

## Profile Sources

- Dice:  
<https://www.dice.com/employer/talent/profile/7f73441017efd05611d80ec58e28100a>