**HARINATH Makala**

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# PROFESSIONAL SUMMARY

Adept DevOps-Environments Engineer with a robust background in automating and optimizing cloud solutions across AWS, Azure, and GCP for industry leaders like MTech and State of Maryland. Demonstrated excellence in integrating DevOps methodologies with strong Java and Python skills, enhancing deployment efficiency by over 30%. Renowned for exceptional collaboration and project management abilities. Talented engineering professional with a passion for developing innovative solutions to complex engineering problems. Specializes in design, development and implementation of cutting-edge technology. Proficient at analyzing and interpreting large amounts of data to create effective solutions. Highly motivated and organized with strong communication and problem-solving skills.

# SKILLS

**Windows (Server 2008, 12, 16, 19), Unix (Ubuntu, Solaris), Linux (RedHat 5, 6, 7, 8, 9)**

**Jira, Remedy, ServiceNow**

**Java, Python, Node.js, Groovy, JavaScript, Bash, PowerShell, HTML**, **CSS**, **XML**

**Oracle SQL, MySQL, MariaDB, DynamoDB, MongoDB**

**Git, Maven, Gradle, ANT, Jenkins, Gitlab CI**

**Oracle SQL, MySQL, MariaDB, DynamoDB, MongoDB**

**AWS CDK**, **Terraform**, **Kubernetes**, **Docker**, **EKS**, **Elastic Beanstalk**, **Lambda**

# EXPERIENCE

## SENIOR DEVOPS ENGINEER - ARCHITECT, Atlanta Macy’s Technologies, May 2023-Present

* Configured POS register environments by handling peripherals, building OS golden images, installing prerequisites, and automating software installations and settings configuration.
* Developed NCR printer and cash drawer profiles, automating the configuration process for future releases.
* Created and managed user, device, POS terminal, payment device, and host IDs; installed and configured Enactor POS and PDC software on POS terminals, with automated deployment for future updates.
* Ensured infrastructure deployment in Google Cloud Platform (GCP), including correcting YAML files, deploying images for code drops on Google Kubernetes Engine, creating volumes, and managing custom Java archive (JAR) files for extensions.
* Designed and deployed enterprise-level cloud environments, promoting mission-critical resources across multiple environments.
* Managed RHEL-based infrastructure for store-level servers, deploying customized Macy's configurations, and ensuring successful integration of data broadcasts and file imports.
* Installed POS application software on terminals, ensuring client customizations were applied, logging configurations were set, and services were restarted as required.
* Automated device ID creation, software installation, and image management using Jenkins to pull/push images between AWS, Azure, and Google Cloud Registry (GCR).
* Maintained up-to-date configuration files in Git repositories, validated merge requests, and developed CI/CD pipelines to promote configurations across environments.
* Participated in POS system design, gathering architectural requirements, validating firewall ports, troubleshooting network issues, and collaborating with Enactor team for resolution.
* Documented all processes in Confluence for knowledge sharing, enabling repeatable installation and validation for other environments.
* Performed JAR deployments to integrate new features into the UI and managed configuration changes for Estate Manager and data broadcast processes.
* Managed security certificates, including JKS/PFX files, ensuring proper configurations for trust stores across POS and PDC applications.
* Assisted in network performance testing by capturing and analyzing network traffic and worked with the performance team for optimization.
* Collaborated with the Kafka team to integrate message queue mechanisms for data and application broadcasts, including managing subscription processes and acknowledgment requirements.
* Coordinated with offshore teams for software installations, peripheral validation, and system troubleshooting.
* Developed Python scripts for generating and managing device, POS terminal, and payment device IDs for seamless registration.
* Contributed to roles validation discussions, comparing SPOS and Enactor roles to determine appropriate user access levels for Business Objects and Estate Managers.
* Worked with the Enactor team to implement logging properties, such as log file size and count, to ensure configurations remain intact during application upgrades.
* Facilitated the migration of user data from SPOS AOF files to Enactor XML format, ensuring smooth user imports for production deployment.
* Led discussions on scalable Enactor integration across 600+ locations and 33k+ registers, including the development of database, user roles, and MariaDB privileges.
* Collaborated with Site Reliability Engineering (SRE) teams to define logging retention policies, monitor log sizes, and ensure performance metrics were captured in Dynatrace and FISCAP dashboards.
* Initiated software version tracking by collecting manifest files, ensuring accurate version reporting across POS terminals.

## AWS DEVOPS ENGINEER - ARCHITECT, Maryland St. of Maryland, April 2022- April 2023

* Collaborated with development, testing, and operations teams to set up, maintain, and optimize the Health Connection system and related components across Cloud and traditional infrastructures.
* Hosted daily scrum calls to facilitate team communication, track progress, and resolve any blockers.
* Created and maintained sprint track sheets for Program Increments (PI), ensuring JIRA tickets were effectively monitored and tracked.
* Provided technical support to Application Development teams, ensuring seamless consumption of Cloud services while adhering to CI/CD pipeline best practices and standards.
* Consulted with infrastructure and system operations teams to automate end-to-end operations of applications and systems deployed in AWS Cloud.
* Designed, built, and automated technical processes and workflows leveraging AWS Cloud services, ensuring scalability and efficiency.
* Designed and maintained complex release pipelines in XL Release, integrating with CI/CD tools like Jenkins and Git to automate deployment processes, enhance visibility, and ensure consistent delivery of high-quality software.
* Managed application environments with XL Deploy, ensuring seamless transitions between development, testing, and production environments. Implemented rollback procedures that minimized downtime and enhanced operational resilience.
* Utilized automation tools and built systems to configure, deploy, and maintain AWS Cloud technologies.
* Implemented and managed CI/CD solutions in AWS Cloud using tools like Jenkins, Git, Docker, EC2, ELB, S3, and Ansible to ensure efficient application delivery pipelines.
* Built and maintained CI/CD pipelines for deploying Node.js and .NET applications on IIS running on AWS EC2 instances, ensuring proper security configurations and group entries.
* Managed security certificates by generating Certificate Signing Requests (CSRs), importing certificates into JKS files, and renewing certificates as required.
* Monitored system performance, troubleshot issues, and performed debugging to ensure optimal system operation.
* Provided technical input for complex IT decisions, ensuring integration solutions aligned with business needs.
* Assisted in integration testing and collaborated with business teams to ensure successful completion of acceptance testing.
* Participated in technical reviews during various stages of software development, contributing to design and implementation decisions.
* Integrated Helm charts with Jenkins/Gitlab CI/CD pipelines, enablng automated deployment and rollback of applications in Kubernetes clusters.
* Adhered to security policies, change control processes, and project management methodologies as defined by the MHBE Project Management Office (PMO).
* Designed and implemented enterprise-level cloud environments, migrating mission-critical applications from on-premises infrastructure to AWS Cloud.
* Onboarded applications to Amazon EKS, creating namespaces, ingress, service accounts, and services through automated Jenkins pipelines.
* Created and managed Elastic Container Registry (ECR), updating access control lists (ACLs) and facilitating seamless deployment in AWS EKS.
* Established and managed Persistent Volumes (PVs) and Persistent Volume Claims (PVCs) in AWS EKS, ensuring proper assignment to newly created Pods.
* Monitored AWS EKS Pods across environments, ensuring minimal restarts and high availability.
* Developed and deployed secure infrastructure solutions using AWS services such as IAM, Lambda, S3, Glacier, VPC, Route53, Security Groups, ALB/ELB/NLB, API Gateway, WAF, KMS, CloudTrail, CloudWatch, Kinesis, and more.
* Configured security groups and identity access management (IAM) roles to allow appropriate traffic flow from internal and external users.
* Strong understanding of Microservices and Service-Oriented Architecture (SOA), enabling effective design and deployment of distributed applications.
* Applied Agile development methodologies, ensuring timely and efficient project delivery across all stages of the software development lifecycle.

## AWS DEVOPS ENGINEER-ARCHITECT, Indianapolis, IN Eli Lilly & Company, January 2019- March 2022

* Designed, deployed, and managed multiple applications on AWS Cloud infrastructure, focusing on high availability, fault tolerance, and auto-scaling of instances for optimal performance.
* Leveraged key AWS services such as EC2, RDS, EBS, ELB, Auto Scaling, AMI, and IAM for infrastructure management, using both AWS Console and API integrations.
* Implemented Jenkins pipelines to automate microservices builds, pushing them to Docker registry, and deploying applications on Kubernetes clusters.
* Automated provisioning of database instances from on-premises to AWS Cloud using Terraform scripts, ensuring a smooth migration process.
* Analyzed and modified Groovy scripts to facilitate the setup of new environments in Jenkins.
* Deployed applications to AWS using the AWS CodeDeploy plugin integrated with Jenkins, streamlining continuous deployment.
* Developed and automated container deployment processes, application provisioning, and public cloud environments using Terraform, Chef, Docker, and Kubernetes.
* Set up monitoring for EC2 instances with CloudWatch, creating alarms and notifications to ensure high availability and performance.
* Utilized Terraform features such as Infrastructure as Code (IaC), execution plans, resource graphs, and change automation to streamline infrastructure provisioning and management.
* Managed Configuration Management Database (CMDB) entries using ServiceNow and Chef, ensuring accurate tracking of infrastructure components.
* Worked closely with development and management teams to resolve deployment issues and optimize application performance across multiple environments.
* Designed and implemented enterprise and cloud environments, migrating computationally intensive Commercial Off-The-Shelf (COTS) applications to the cloud.
* Created publicly accessible cloud environments, documenting the necessary steps for external exposure and compliance.
* Managed Docker images on Docker Hub, handling middleware installations and domain configurations to ensure consistent application deployments.
* Configured and maintained Jenkins for Continuous Integration (CI), integrating with Git and Maven for automated build and deployment pipelines.
* Streamlined the process of adding URL statistics to Google Analytics 360 and BigQuery for enhanced tracking and reporting.
* Migrated on-premises PostgreSQL databases to AWS Aurora PostgreSQL, optimizing cloud database performance and scalability.
* Deployed and managed AWS Aurora PostgreSQL environments using Terraform, ensuring robust and secure cloud database solutions.
* Implemented a new build framework using Jenkins and Maven, configuring Jenkins for daily backups of configuration and plugin files to ensure system integrity.
* Modified Groovy scripts in Jenkins pipelines to onboard new applications and optimize deployment processes.
* Deployed a microservice-based application onto a Kubernetes cluster using Amazon EKS, ensuring scalability and reliability of containerized applications.
* Developed Chef cookbooks to automate package installation, configuration management, and new build deployments across remote servers.
* Automated build, deployment, and maintenance tasks using Jenkins, Docker, Maven, Python, and Bash scripting.
* Developed a Java-based solution to encrypt KeyStore passwords in Tomcat's server.xml file, implementing decryption logic for secure password handling.
* Performed preflight upgrades for GitLab (EE) components across multiple environments to ensure version consistency and security.
* Implemented GitHub Actions and Argo CD pipelines to manage continuous delivery processes across environments.
* Verified application servers for Log4j vulnerabilities, coordinating with platform teams to upgrade to the latest version of Log4j jars.
* Coordinated with application and platform teams to upgrade and patch Log4j vulnerabilities across all environments, ensuring compliance and security.
* Developed a Java program to encode plaintext passwords in server.xml files to Base64, providing secure password management for requests.
* Migrated cron jobs to Autosys by creating JIL files, uploading to Autosys, and managing job states during activity times for smooth execution.

## AWS DEVOPS ENGINEER, Nashville, TN TennCare, March 2018 – Dec 2018

* Implemented AWS solutions using EC2, S3, EBS, Elastic Load Balancer, Auto scaling groups. Participated in the installation of multi-node Oracle databases on Linux OS and configured RDS
* Creating mappings and workflows to extract data from Oracle, SQL Server, Redshift and Flat File sources and load into various Business Entities
* Worked on using a GIT branching strategy that included develops branches, feature branches, staging branches and master. Pull requests and code reviews were performed
* Designed and developed web applications using Java and deployed the applications to GIT for version controlling
* Automated the cloud deployments using Chef, Python and AWS Cloud Formation Templates
* Configured and maintained Jenkins to implement the CI process and integrated the tool with GIT, Jenkins, Maven SonarQube, JFrog to schedule the builds
* Able to create scripts for system administration and AWS using languages such as BASH and Python
* Design roles and groups for users and resource tags using AWS Identity and Access Management (IAM)
* Implementing Continuous Integration/Continuous Delivery (CI/CD) framework using Jenkins, Chef, Maven & Nexus in Linux environment
* Used the Salt stack for the continuous code deployment, Real-time automation
* Automating configuration management using Salt Stack
* Experience in creating cloud migration strategies defining delivery architecture, creating the migration plans, designing the orchestration plans and more
* Scripted internal automation via various scripting languages like PowerShell, Bash and Python
* Implemented automated local server provisioning in instances created in Terraform
* Creating EC2 instances in secured private subnet and deploying them in load balancing, assigning Elastic IP Addresses for EC2 instances
* Managed AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and Ansible
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configuration of AWS nodes and tested playbooks on AWS instances using Python.

**AWS DEVOPS ENGINEER, Wilton, CT Persistent Systems, June 2017 – Jan 2018**

* Developed automated solutions for customer applications to be deployed to public cloud environments using immutable infrastructure deployments with Terraform and Ansible
* Very proficient in Cloud ability pricing tool in suggesting various cost strategies implementation/ rollout to cost leads based on different applications
* Managed Docker orchestration and Docker containerization using Kubernetes
* Launched Docker containers on pods on top of multi-node Kubernetes cluster in AWS environment with help of Kops and kubectl
* Deployed Kubernetes clusters on top of Servers using KOPS and managed local deployments in Kubernetes
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers
* Worked with containerization tools, can implement transition to Docker and develop distributed cloud system using Kubernetes and Helm package manager for Kubernetes
* Skilled in maintaining Dockers container clusters managed by Kubernetes and deployed Kubernetes applications using helm charts
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple names spaced versions using helm charts
* Designed AWS Cloud Formation templates to create custom sized VPC, Subnets, NAT to ensure successful deployment of Web applications and database templates
* Worked on Docker hub, creating Docker images and handling multiple images
* Configured and maintained Jenkins to implement the CI process and integrated the tool with GIT and Maven to schedule the builds
* Knowledge of working on microservice architecture and tools such as Consul
* Worked with Configuration Management automation tool Ansible and has worked on integrating Ansible YAML Scripts
* Created Ansible playbooks to automatically install packages from a repository, to change the configuration of remotely configured machines and to deploy new builds
* Worked with Ansible to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points, and Packages also to assist in building automation policies
* Managed a PaaS for deployments using Docker, Ansible which reduced considerably deployment risks.

**DEVOPS SECURITY ENGINEER, Mumbai, US iGATE Global September 2012 – Jan 2016**

* Worked with the Architects on SDLC process being the owner of post development environments
* Administered and maintained source code configuration tool GIT used for different projects
* Good understanding of the SDLC Processes, Project roles and SCM plans, familiar with Agile/SCRUM, ISO standards and applying CMM levels to organizations
* Designing and creating SCM Infrastructure from scratch - Subversion and Hudson integrated with Active Directory/LDAP, and orchestrating SCCM deployments and host builds to serve every part of the company
* Supporting complex Atlassian environments and have experience with integrating Atlassian Tools with other internal and external systems
* Proactive in updating the latest security patches to database, which are provided by PostgreSQL open-source community
* Managed the Maven Repository using Nexus tool and used the same to share the snapshots and releases of internal projects
* Implemented multi-tier application provisioning in OpenStack cloud, integrating it with Puppet
* Worked with messaging service across a variety of technologies such as RabbitMQ
* Developed automation scripting in Python (core) using Puppet to deploy and manage Java applications across Linux servers
* Internal IT support including software installation, troubleshooting issues, local development environment set up and training on new technologies (such as Git and Vagrant) and procedures
* Created Middleware and workstation packets with http and workstation headers using IBM WTX tool
* Installed and configured foreman with puppet automation for auto-provisioning the Linux machines in Open Stack and VMware environments
* Wrote MAVEN Scripts to automate the build process
* Advanced knowledge of Autosys Scheduling techniques in a Distributed environment
* Created Jil and updated existing jobs, calendars, resources, variables, and any other components that are supported by CA Autosys
* Migrated all the cron jobs to Autosys, managed, and maintained them.

**SYSTEM & NETWORK ADMINISTRATOR, Chennai, US Athena Info Consulting, July 2008 – Feb 2009**

* Trained as System and network administrator which includes networking, DHCP, DNS, active directory services
* Domain Controller activities, group policies etc.
* Responsible for tracking all support tickets and to make sure each issue was resolved
* Assisted in planning several large system software and hardware upgrades
* Monitored critical systems from NOC lab and responded to the issues on timely manner

# EDUCATION

Master of Science in CSE, Kingsville, TAMU, TX, May 2017

Master of Technology in Bioinformatics, JNTU- Hyderabad, September 2011

Bachelor of Technology in Computer Science, JNTU- Hyderabad, India, May 2008

# CERTIFICATIONS

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| * AZ-900 * IBM ODM developer   **REFERENCES** | • AWS solutions architect |

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| **TIRU CHILLAPALLI** Macy's Technology  **Manager** | **PRASANNA PANGULURI** Macy's Technology  **SRE Architect** Peer |

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# ADDITIONAL INFORMATION

WEBSITE, PORTFOLIO AND PROFILES

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