**Rani Agasti**

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**PROFESSIONAL SUMMARY: -**

* Experienced IT professional with 12 years of overall experience, specializing in DevOps, Cloud Technologies, and Quality Assurance Testing.
* Proficient in managing cloud ecosystems like **Azure, AWS**, and **IBM Cloud.**
* Expertise in **ARM templates, AKS, EC2, RDS, VPC, and IBM OpenShift.**
* Skilled in designing and optimizing CI/CD pipelines using **Jenkins, Azure DevOps, and GitLab.**
* Extensive experience with **Terraform, Ansible, and CloudFormation** for automating infrastructure provisioning.
* Implemented IaC for consistent deployments across environments.
* Automated creation and configuration of VMs, containerized environments, networking, and storage on AWS and Azure.
* Deep knowledge of **Docker, Kubernetes, and OpenShift** for containerization and orchestration.
* Designed and deployed containerized microservices architectures.
* Expertise in using Helm charts for Kubernetes applications.
* Implemented monitoring with **Prometheus, Grafana, ELK Stack, Splunk, and Azure Monitor**.
* Demonstrate expertise in automating and scaling technologies, like Docker, Kubernetes, **Openshift**,
* Exposed to all aspects of software development life cycle **(SDLC)** such as Analysis, Planning, and Testing, and Implementing, Post-production analysis of the projects.
* Implemented hybrid cloud solutions with Azure ExpressRoute and AWS Direct Connect.
* Led and mentored teams, ensuring efficient project delivery and fostering innovation.
* Proficient in Python, PowerShell, Bash, Groovy, and YAML for automation.
* Contributed to RCA and provided long-term solutions for system reliability.
* Earned certifications in **DevOps, DevSecOps**, and **IBM Cloud Essentials**.
* Worked on SOAP UI and REST UI.
* Familiar with Software Development Life Cycle (SDLC) and Software Testing Life Cycle(STLC) process.
* Familiar with Defect Life Cycle.
* ISTQB Certified from British Computer Society.
* Having experience in Manual Testing, SQA, IQA, SEPG and CMMI Process implementation.
* Excellent in preparing Test strategy, Test Scenarios, Test plans and Test Cases.
* Expertise in various types of testing like System testing, Regression Testing, Integration testing,
* Smoke Testing, Sanity Testing, Black Box testing
* Worked on Test management tools like Quality Centre, Bugzilla, Issue Tracker, JIRA for bug

**TECHNICAL SKILLS**

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| --- | --- |
| **Cloud Environments** | Microsoft Azure, Amazon Web Services (AWS), GCP, OpenShift, IBM Cloud, Salesforce, DynamoDB. |
| **Azure** | Azure VMs, Azure App service, Azure Functions, AKS, Azure Storage (Blob storage, File storage) Azure SQL Database, Azure Data Factory, Azure Virtual Network. |
| **AWS** | AWS EC2, ELB, S3, EBS, VPC, Route 53, RDS, Auto-Scaling, IAM, SNS, SES, SQS, Cloud Front, Cloud Formation, Cloud Watch, Elastic Beanstalk |
| **Programming/Scripting Languages** | Python, Groovy, YAML, Bash, Shell/Perl Script, SQL, PL/SQL, Unix Shell Scripting |
| **Technologies & frameworks** | CI/CD, Docker, AWS, EC2, S3, Lambda, Groovy, Jenkins, Kubernetes. |
| **Web Servers** | Apache Tomcat, Nginx, WebSphere, JBOSS, WebLogic |
| **Version Control Tools** | SVN, GIT, GitOPS, GitHub, Gitlab, Bit bucket |
| **Tracking Tools** | JIRA, Bugzilla, Remedy, HP Quality Center, IBM Clear Quest, Mingle Repositories Artifactory, Nexus |
| **Build/Release (CI/CD)** | Ansible, Jenkins, Kubernetes, Azure, Cloud Foundry, Harness, Circle CI, Yocto, TeamCity, Maven, ANT, Git, SVN, TFS, Atlassian Jira, Selenium, Nexus, J Frog, Docker. |
| **Automation Tool** | Ansible, Terraform, ARM templates, Harness.  |
| **Deployment Tools** | Azure DevOps Server, Octopus |
| **Monitoring Tools** | Nagios, Splunk, ELK, CloudWatch, Azure Monitor, Prometheus, New Relic, Grafana. |
| **Container Tools** | Docker, Docker Swarm, Kubernetes, Mesos, OpenShift, Aws ECS. |
| **Application Servers** | Web logic, Web sphere, Apache Tomcat, Nginx, Oracle application server |
| **Operating Systems** | Linux (RedHat CENTOS), Unix, Solaris 11/10/9/8, Ubuntu 12/13/14, Windows NT, Windows MacOS, RHEL. |
| **Testing**  | Manual Testing, API Testing, Mainframe Testing, Webservices Testing |
| **Database** | My SQL, MS SQL, Oracle, Dynamo DB, Cassandra, Mongo DB |

**PROFESSIONAL EXPERIENCE**

**Client - HCL (Client: MVW Club**), **Orlando, FL May 2024 –Till Date**

**Role – Sr. DevOps/Cloud Engineer,**
**Project Description:** The MVW Club project focuses on managing and optimizing cloud infrastructure while ensuring compliance, security, and availability for diverse cloud services across AWS, Azure, and ROSA (Red Hat OpenShift on AWS).

**Key Responsibilities:**

* Led a team of 10 offshore members, managing day-to-day operations and SWAT calls for P1 ticket resolution.
* Conducted patching activities across AWS, Azure, and ROSA cloud environments.
* Prepared and presented cloud backup, optimization, health, and compliance reports to stakeholders.
* Participated in weekly advisory board change management meetings and daily stand-ups.
* Managed complete cloud infrastructure, including migration, security, and resource optimization.
* Worked with Azure services such as Compute (Web/Worker Roles), Azure Websites, Caching, SQL Azure, NoSQL, Storage, Networking, and AD integration.
* Provided guidance and consulting, and administrative support to Cognos package developers, report authors and report consumers.
* Integrated IDEs with Git, AWS SDKs, and debugging tools, enabling seamless development workflows.
* Implemented IAM policies, roles, and permissions to enforce least-privilege access across AWS workloads.
* Worked on OpenShift for managing the clusters.
* Worked on functions in Lambda that aggregates the data from incoming events, and then stored result data in Amazon DynamoDB. Wrote Terraform templates for AWS Infrastructure as a code to build staging, production environments & set up build & automations for Jenkins.
* Built automated **DevSecOps CI/CD pipelines** using **Azure DevOps CI** with integrated security gates.
* Implemented **container image scanning** in CI/CD workflows using **Aqua** to detect vulnerabilities before deployment.
* Used **Terraform / Ansible** to provision infrastructure securely and enforce **policy-as-code** through **Azure Policy.**
* Secured Kubernetes deployment pipelines with integrated **Kubernetes Admission Controllers**, image signature verification, and **RBAC** enforcement.
* Implemented CI/CD pipelines on GCP using Cloud Build and integrated GCR with Kubernetes clusters.
* Provisioned infrastructure using Terraform to automate GCP services like Compute Engine, Cloud Storage, and VPC.
* Used Python scripts to store data in S3 and retrieve those files in redshift by using programmatic access by AWS CLI.
* Automated infrastructure and deployment wif Terraform, Harness, Ansible, Jenkins.
* Built and managed a large deployment of Ubuntu Linux instances systems with Puppet automation.
* Strong knowledge of Software Development Life Cycle (SDLE) methodologies such as Agile, Scrum Models.
* Deployed and monitored Java-based applications on Linux environments.
* Automated Azure deployments using PowerShell, Jenkins, Terraform, and Azure DevOps.
* Configured Azure VMs with availability sets for resiliency and managed network traffic using ARM.
* Utilized monitoring tools like Splunk, Azure Monitor, and Prometheus to ensure system performance and reliability.

**Environment:** Azure, AWS, GCP, ROSA (Red Hat OpenShift on AWS), Jenkins, Linux, Unix, Typescript, Terraform, PowerShell, Splunk, Azure Monitor, Prometheus, Docker, Kubernetes.

**Client – IBM (Client: Anthem) Mar 2021 to Dec 2022**

**Project: Bedrock Common Services**

**Role – DevOps Engineer.**

**Project Description:** Provided IBM Cloud Private services globally, focusing on automation, containerization, and robust CI/CD practices for enterprise clients.

**Key Responsibilities:**

* Managed L2-level support for IBM Cloud Private, Kubernetes, RH OpenShift, Docker, and PostgreSQL.
* Automated IBM WebSphere installation using Ansible playbooks and maintained OpenShift clusters for smooth operations.
* Automated infrastructure provisioning with GitHub Actions and Terraform, improving deployment efficiency.
* Designed CI/CD pipelines for OpenShift, integrating GitLab for version control and automated testing.
* Implemented LDAP integration and migrated users to OKTA Universal Directory.
* Utilized and enhanced Harness CD tool, to deploy the microservices from INT, PERF, Stage and PROD in a single pipeline.
* Main Architect for pre-sales and trade shows including INTX (NCTA), CES, Cable labs conferences, RDK conferences and other opportunities for technical presentation
* Create Athena data sources on S3 buckets for adhe querying and business dashboarding using Quick sight and Tableau reporting tools.
* Integrated IDEs with Git, AWS SDKs, and debugging tools, enabling seamless development workflows
* Implemented multi-account security best practices using IAM Organizations, SCPs, and federated access with Azure AD.
* Database Migration from SQL Server to Amazon Redshift using AWS DMS and SCT. Worked on AWS Data Pipeline to configure data loads from S3 into Redshift.
* Regularly monitor performance and availability of Cognos environments to ensure ongoing utility.
* Created and worked with various SQL and NoSQL databases such as AWS RDS Aurora DB cluster, MySQL, DynamoDB, MongoDB and connected to the database through DB Instances using the AWS Java SDK.
* Conducted regular deployments for all the applications in QA and STAGING on Android and iOS platforms.
* Configuring JUnit coverage report and Integration Test cases as part of build in GitLab Runner.
* Set-up databases in AWS using RDS, storage using S3 bucket and configuring instance backups to 53 bucket. prototype. CI/CD system with GitLab on GKE utilizing Kubernetes and Docker for the runtime environment for the CI/CD systems to build and test and deploy.
* Designed multi-cloud CI/CD pipelines with GitLab CI for hybrid GCP and AWS deployments.
* Managed GCP Networking configurations including VPC peering, load balancing, and firewall rules to support containerized workloads.
* Developed build workflows using Grade, Gitlab-Cl, Docker and Openshift.
* Collaborated with development teams to enhance SDLC artifacts, ensuring quality and compliance.
* Configured ELK Stack, Azure Monitor, and Splunk for centralized monitoring and logging.
* Worked as a partial system administrator for Linux and Windows machines.
* Deployed containerized microservices using Docker and Kubernetes to ensure fault tolerance and scalability.
* Implementing the Canary POC. Created the Harness CD workflows and pipelines to support Canary deployment.
* Designed AWS CloudFormation templates for VPC creation, IAM policies, and secure resource management.
* Developed Terraform templates and YAML files for automating cloud infrastructure provisioning.
* Utilized monitoring tools like Grafana and Nagios to oversee application and infrastructure health.

**Environment:** IBM Cloud Private, Kubernetes, GitLab, GitLab-Runner, RH OpenShift, React JS, Typescript, Docker, C#, Linux, Unix, PostgreSQL, Ansible, GitLab, Terraform, YAML, ELK Stack, Azure Monitor, Splunk, Grafana, Nagios

**Client: Value Labs (Client: United Airlines) Hyderabad, India Oct 2018 to Feb 2021**

**Project: Merchandising**

**Role: DevOps Engineer**

**Project Description:** United Airlines application where customer book the ticket with special packages with different bundles and check thePNR**,** implemented hybrid cloud architecture for a dynamic ticket-booking platform, integrating special packages and bundles for customers.

**Key Responsibilities:**

* Led offshore teams, ensuring timely delivery and collaborating with clients for feature development.
* Developed Terraform templates and Helm charts for Kubernetes management.
* Configured Azure Data Factory for real-time data orchestration and processing.
* Migrating from Gitlab to docker and implementing GitLab inside docker.
* Experience in Amazon Athena to Analyze Web Data Stored in AWS Data Lake S3 Bucket and AWS Glue for ETL and Data Analytics.
* Support existing Stream sets architecture in AWS environment and work on migrating the architecture to AWS cloud.
* Manage Amazon Redshift clusters such as launching the cluster and specifying the node type.
* Management of build farm environment and workflow management and administration using Jenkins, GIT, Bamboo, Artifactory. Stash, Jira, Confluence, and various target build environments Android, iOS, Windows, Linux
* Automated provisioning of hybrid cloud resources using AWS VPC, Route 53, and Elastic Load Balancers.
* Built CI/CD pipelines using Jenkins and integrated monitoring with CloudWatch, Splunk, and ELK Stack.
* Deployed multi-regional disaster recovery solutions to ensure business continuity.
* Configured SAML-based single sign-on and authentication using Okta and Azure AD.
* Leveraged Docker and Kubernetes for containerization and workload scalability.
* Setting up the new build environment for various applications in Windows/Linux environment.
* Branching, Tagging, Release Activities on Version Control Tools: GIT, GitHub.
* Configure Scheduled builds, Nightly builds in CI tool Jenkins.
* Installed Jenkins on a Linux machine and created a master and slave configuration to implement
* multiple parallel builds through a build farm.
* Migrated legacy applications to GCP using Compute Engine and containerization via GKE.
* Designed Terraform templates to provision GCP infrastructure, including Cloud SQL, GCS, and IAM configurations.
* Automate build process used for Java applications using JENKINS.
* Project involved the usage of maintaining repository and version controlling.
* Involved in Branching, and Merging of code delivery at required releases.
* Create the Docker containers by using Docker images.
* Development of ansible playbook to manage systems configuration
* Implemented Infrastructure automation through Ansible for auto provisioning, code deployments,

software installation and configuration updates.

* Worked on Installation of Docker Using Docker toolbox.
* Worked on creation of custom Docker container images, tagging and pushing the images.
* Worked on creating the Docker containers and Docker consoles for managing the application.

**Environment:** AWS, Azure, GCP, Jenkins, Terraform, Helm, Kubernetes, Typescript, Docker, ELK Stack, Splunk, CloudWatch,

**Deloitte (Client: Scholastic Corporation) Hyderabad, India June 2016 - Sept 2018**

**Project Name: Scholastic Online Schooling**

**Role – Sr. QA Engineer**

**Project Description:** Online Schooling is mainly designed for the students who want to learn online education through videos, documents, materials and online classes. It has Student module, Teacher’s module and Parent modules where anyone can login and search for the required books. The Online Schooling is divided into three zones. In that LP (literacy Pro) is the first zone for the Assignments and other Activities. The School Learning is the second zone for the online classes. The Third zone like LPB (literacy prone library) has Materials, documents and videos for learning the online courses

**Key Responsibilities:**

* Provisioned and managed AWS EC2 instances, S3 replication, and VPC configurations.
* Automated cloud deployments using Terraform and CloudFormation templates.
* Configured ELK Stack for real-time log analysis and monitoring.
* Responsible for design and maintenance of the Subversion/GITLAB, Stash Repositories, views, and the access control strategies.
* Worked in TypeScript to render JavaScript (Knockout/S) with unit and end-to-end tests.
* Designed CI/CD pipelines with Jenkins for application deployment.
* Utilized Python and Bash scripts for task automation and data processing.
* Integrated monitoring tools like Nagios to track infrastructure health.
* Preparing and executing Test Plans, Test Cases and Test Scripts to verify reliability, accuracy, and compatibility of
* application.
* Automation testing covered functionality, performance, GUI of all the components of the website
* Automated test cases using Selenium WebDriver, Java and running test script using Selenium with Java and

TestNG framework.

* Developed test code in Java language using Eclipse, IDE and TestNG framework.
* Created test cases, scripts based on functional specification, prepared test data for simultaneous and combined
* Trade testing.
* Involved in testing Web services with REST ASSURED, POSTMAN and used this tool to locate WSDL file on

internet, create Test cases and run them.

* Developed script and performed Web Services testing using REST ASSURED tool for functional and regression

testing.

* Used BDD Cucumber by creating the Features and Step Definition files to execute test scripts.
* Developed Test cases manually and generated Automation Scripts using open source tools like Selenium Web
* Developed test automation scripts using TestNG for regression and performance testing of the various releases of the

application.

* Used TestNG Annotations in Selenium WebDriver and executed a batch of tests as TestNG suite.
* Involved in executing SQL queries and PL/SQL procedures, functions and packages for backend testing.
* Used SQL Queries to verify the data from the Oracle database.
* Implemented test automation scripts for mobile testing using Appium for Android and iOS applications.
* Used Appium tool, for mobile testing in Android, IOS and other mobile applications.
* Executed test cases compared with expected values and pass/fail reports updated through JIRA.
* Identifying and tracked bugs via JIRA. Bugs compiled were communicated to developer. Meeting with customers and business analysts to define requirements.
* Involved in Unit testing, test case development and regression testing using TESTNG for web based application.
* Developed and executed SQL queries in the database to conduct Data integrity testing by checking the data tables on
* the server.
* Prepared user documentation with screenshots for UAT (User Acceptance testing).
* Interacted with development and product management teams for the quick resolution of reported bugs and various
* technical issues.
* Working closely with the Developers in the review and modification of the product and its specifications using Agile-

testing methodology.

**Environment:** Java, Selenium WebDriver, TestNG, Maven, REST ASSURED, Cucumber, POSTMAN, Jenkins, Agile,

Appium, JavaScript, JIRA, SQL, Oracle, Windows, Git, Jenkins, AWS

**Value Momentum (Client: Erie Insurance) Hyderabad, India April 2015 - April 2016**

**Role – QA Engineer**

**Project Description:** Erie Insurance is one insurance company handling Personal and Auto Insurance.

**Key Responsibilities:**

* Responsible for providing test cases and executing them within an AGILE software development SCRUM

environment.

* Understanding the BRS, SRS, FRS and TRS documents.
* Worked on QTP, JIRA.
* Reviewed and Created Project Assessment, Project Plan, Business Process Requirements, Technical Requirements,

Test Specifications, Test Results, and Test Results.

* Analyzed the system requirements and developed test plans using technical specifications.
* Performed Black Box Testing, System Testing, Smoke, and Regression Testing.
* Responsible for back-end testing/database testing, which was done using SQL queries.
* Generated automated test scripts for regression and stress testing and also data driven scripts for multi user access
* for product information module using the data pool.
* Used Quality Center for bug tracking and investigated software bugs.
* Involved in Bug Logging, Issue Tracking and responsible for tracing the bugs throughout the whole bug lifecycle till the bug closure.
* Worked on regression testing, automation estimation, design and framework. Provided the detailed implementation

plan to management.

* Responsible for preparing weekly status reports and validated the back-end data using SQL queries for data

integrity.

* Actively involved with scrum and sprint meetings, managing product backlog, removing obstacles to progress, re-

allocating resources where necessary, prioritizing and review milestones and accomplishments.

**Environment:** Java, Quality Center, HTML, XML, SQL, Google Chrome, Mozilla Firefox, Internet Explorer, Windows, Manual Testing, QTP, JIRA.

 **Client - CAT Technologies Ltd, Hyderabad, India Jan 2012 to Mar 2015**

**Role – QA Manual Tester**

**Key Responsibilities:**

* Responsible for providing test cases and executing them within an AGILE software development SCRUM

environment.

* Understanding the BRS, SRS, FRS and TRS documents.
* Reviewed and Created Project Assessment, Project Plan, Business Process Requirements, Technical Requirements,

Test Specifications, Test Results, and Test Results.

* Analyzed the system requirements and developed test plans using technical specifications.
* Performed Black Box Testing, System Testing, Smoke, and Regression Testing.
* Responsible for back-end testing/database testing, which was done using SQL queries.
* Generated automated test scripts for regression and stress testing and also data driven scripts for multi user access
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integrity.

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allocating resources where necessary, prioritizing and review milestones and accomplishments.

**Environment:** Java, Quality Center, HTML, XML, SQL, Google Chrome, Mozilla Firefox, Internet Explorer, Windows, Manual Testing

**CERTIFICATIONS:**

* Completed Devops Essentials Certification on April 4th 2022
* Completed DevSecOps Essentials on May 18th 2022
* Completed Scrum Foundational Professional Certification on May 24th 2022
* Completed IBM Cloud Essentials V3 certification on June 17th, 2022
* Completed ISTQB Certification.

**EDUCATION:**

* Bachelors in Commerce (computers) Osmania university.
* Masters in Computer Applications from Osmania university
* Masters in Computer Science from Sacred heart university.