

# Parasu Ramudu Koppada

DEVOPS ENGINEER | DXC | IBM

Phone: +91 9346268700

Email: parasuramudukoppada@gmail.com

## PROFILE:

As aws cloud technical associate, passionate about designing, coding and deploying applications from scratch and scaling existing systems. Designed and developed end-to-end solutions in multiple products along with supporting customers and solving their problems by taking up challenges and build robust solutions to complex problems. Also, adopting to building cloud native solutions, modernizing the applications, and deploying them to cloud platforms. **8+years** of overall experience in java technologies, Agile methodology, Sprint releases, Code reviews, Defect triaging and delivery management.

## PROFESSIONAL SUMMARY:

- ❖ Leveraged Terraform to provision infrastructure as code AWS Cloud Platform, reducing deployment time by 30% and ensuring consistency.
- ❖ Proficient in infrastructure as code, automation, and cloud-native architectures.
- ❖ Adept at collaborating with cross-functional teams to drive successful projects.
- ❖ Designed, implemented, deployed Kubernetes clusters on AWS for microservices-based applications, optimizing scalability and resilience.
- ❖ Developed Helm charts for application deployments, enabling standardized and repeatable releases.
- ❖ Orchestrated migration of legacy applications to Kubernetes, improving resource utilization and reducing operational overhead.
- ❖ Collaborated with security teams to establish Role-Based Access Control (RBAC) and enforce Pod Security Policies.
- ❖ Automated routine tasks using Python scripts, enhancing operational efficiency and reducing manual intervention.
- ❖ Implemented custom monitoring and alerting using Prometheus and Grafana, leading to proactive issue detection and resolution.
- ❖ Integrated centralized logging with the ELK Stack, improving visibility into application logs and troubleshooting.
- ❖ Collaborated with development teams to establish best practices for containerization and deployment on Kubernetes.
- ❖ designing and implementing scalable CI/CD pipelines using Jenkins, reducing deployment times by 40%.
- ❖ Configured Jenkins pipelines using declarative and scripted syntax, optimizing build and deployment processes
- ❖ Developed reusable pipeline templates that improved development efficiency and reduced pipeline creation time by 30%.
- ❖ Integrated automated testing suites into pipelines, resulting in a 25% increase in code quality and early issue detection.
- ❖ Collaborated with security teams to integrate vulnerability scanning tools into pipelines, enhancing application security.
- ❖ Designed and implemented containerization strategies using Docker for multiple applications, reducing deployment overhead by 30%.

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- ❖ Established monitoring and alerting using Prometheus and Grafana, ensuring timely identification of performance issues.
- ❖ Managed Docker Swarm clusters for deploying and scaling applications, providing a highly available environment for microservices.
- ❖ Developed custom Bash and Python scripts for automating routine Docker tasks, reducing manual intervention by 25%.
- ❖ Designed and implemented Ansible playbooks and roles for automating the provisioning and configuration of infrastructure components.
- ❖ Streamlined configuration management processes, reducing deployment time by 30% and increasing system consistency.
- ❖ Developed custom Ansible modules and extensions to meet specific infrastructure automation needs.
- ❖ Assisted in troubleshooting complex deployment and configuration issues, ensuring minimal downtime.
- ❖ Managed Git repositories and branches, Git hooks, resolving merge conflicts and ensuring a smooth development workflow.
- ❖ Collaborated with cross-functional teams to troubleshoot and resolve Git-related issues and pipeline failures.
- ❖ Implemented Git tags and semantic versioning for accurate release management.

## SKILLS:

- |   |   |                                     |
|---|---|-------------------------------------|
| ❖ Cloud Platforms                             | - | Amazon Web Services                 |
| ❖ Infrastructure as Code (IaC)                | - | Terraform, Helm                     |
| ❖ Kubernetes Administration and Orchestration | - | Kubernetes                          |
| ❖ Containerization                            | - | Docker                              |
| ❖ Operating System                            | - | Red Hat Linux                       |
| ❖ CI/CD Pipelines                             | - | Jenkins                             |
| ❖ Code reviews                                | - | Sonar Queue                         |
| ❖ Image scanner                               | - | Trivy                               |
| ❖ Source code management                      | - | Git and GitHub                      |
| ❖ Artifacts                                   | - | Maven, Pip, Nuget, Ms build, Npm    |
| ❖ Monitoring and Logging                      | - | Prometheus, Grafana                 |
| ❖ Project Management                          | - | Jira                                |
| ❖ Programming languages                       | - | Java, Python                        |
| ❖ Frameworks                                  | - | Spring MVC                          |
| ❖ Databases                                   | - | SQL, MYSQL                          |
| ❖ UI/UX                                       | - | Styling, Scripting Markup Languages |

## WORK EXPERIENCE:

IBM

DXC

Maxitsoft

RaoltSolutions

AWS/Devops Engineer (Oct 2019 – Present)

Java Developer/ Application Tester (May 2015 – Oct 2019)

Freelancer (Aug 2013 – May 2015)

Web designer freelancer (Aug 2012 – July 2013)

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## PROJECTS:

### Ecommerce Domain TRYKA (ERP Sales)

#### Devops Tech Associate & Site Reliability Engineer

10/2021 - Present

- ❖ Proficient in infrastructure as code, automation, and cloud-native architectures using Terraform.
- ❖ Designed and implemented Kubernetes clusters on AWS for microservices-based applications, optimizing scalability and resilience.
- ❖ Leveraged Terraform to provision infrastructure as code, reducing deployment time by 30% and ensuring consistency.
- ❖ Implemented Jenkins CI/CD pipelines for automated deployment and testing, resulting in a 40% reduction in release cycles.
- ❖ Orchestrated migration of legacy applications to Kubernetes, improving resource utilization and reducing operational overhead.
- ❖ Collaborated with development teams to establish best practices for containerization and deployment on Kubernetes.
- ❖ Troubleshooting efforts during critical incidents, minimizing downtime and improving system reliability.
- ❖ Implemented custom monitoring and alerting using Prometheus and Grafana, leading to proactive issue detection and resolution.
- ❖ Collaborated with security teams to establish Role-Based Access Control (RBAC) and enforce Pod Security Policies.
- ❖ Automated routine tasks using Python scripts, enhancing operational efficiency and reducing manual intervention.

#### Major Modules:

ERP sales, Leads, Opportunities, Emails, Contacts.

### HR Domain (Talent Management Suite - BrassRing)

#### Technical Support Engineer

10/2019 – 09/2021

- ❖ Managed and maintained Kubernetes clusters across AWS, ensuring high availability and optimal performance.
- ❖ Developed Helm charts for application deployments, enabling standardized and repeatable releases.
- ❖ Implemented custom monitoring and alerting using Prometheus and Grafana, leading to proactive issue detection and resolution.
- ❖ Integrated centralized logging with the ELK Stack, improving visibility into application logs and troubleshooting.
- ❖ Collaborated with security teams to establish Role-Based Access Control (RBAC) and enforce Pod Security Policies.

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- ❖ Automated routine tasks using Python scripts, enhancing operational efficiency and reducing manual intervention.

## Health Care Domain

Java developer

05/2015 - 10/2019

4+ years of experience as a Software Developer.

- ❖ Involved in Architecture and database Design.
- ❖ Involved in creating design and implementation documents.
- ❖ Involved in client side and server-side coding, unit testing and delivery process
- ❖ Developed and supported below health care related products which are primarily to Recruit Attendings, Residents and Nurses, Recover Provider's payments.
- ❖ Developed in conjunction with medical doctors, health care staff and patients, Internal product for tracking Tickets, Leaves, Discussion Forum and Online marketing and educational services.

## PRODUCTS:

- ❖ Dakota
- ❖ Beta Rewards
- ❖ Merchant Organization Scheme.

## EDUCATION:

B. Tech Electronic Communication Engineering, Graduation Year (2012) JNTU – Kakinada.