**Nandakishore Murakonda DevOps Engineer**

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**Professional Summary:** Around 14 years of experience in IT industry in various roles with

excellent experience in Software Development, implementation, migration, project, and support for Infrastructure Solutions **On-Premises**, **AWS Cloud** and **DevOps**.

**Skills Overview:**

* Designed and implemented architectures for **Cloud/On-Premises** with infrastructure/security and networking methodologies.
* Extensive experience in working in a fast-paced **agile environment**.
* Extensively worked on **Hudson/Jenkins, Github Actions, GitLab** for continuous integration and for End to End automation for all build, deployments.
* Good knowledge and experience in using **Elasticsearch, kibana, CloudWatch, Nagios, Splunk,**

and **Grafana** for logging and monitoring.

* Worked in container based technologies like **Docker, Kubernetes** and **OpenShift.**
* Experience working with service mesh like Istio for advanced service discovery of microservices running in the cluster.
* Expert in deploying the code through web application servers like **Nginx/ Apache Tomcat/JBOSS.**
* Experience in **Amazon AWS Cloud Services, EC2, S3, EBS, ELB, Elastic IP, RDS, SNS, SQS, Glacier, IAM, VPC, Cloud Formation, Route53, Lambda, Cloud Watch, AWS Code Commit, Storage Gateway, Elastic search, EKS, ECS, AWS Code Deploy, Snowball, Kafka.**
* Automated various infrastructure builds using **Terraform, AWS Cloud Formation.**
* Automation engineering for various which involves end to end Applications deployment with Three and Four tier architecture.
* Configuration Management **Tools Ansible, Chef, Puppet.**
* Experienced in Branching, Tagging and maintaining the versions across the environments using SCM tools like **GIT**, **Subversion (SVN)** on Linux and Windows platforms.
* Experience in setting up **TICK** stacks. Administrating various environments for maintenance and support.
* Designed and deployed ELK (**Elasticsearch**/**Kibana**/**Logstash**) clusters.
* Administrating various environments for maintenance and support.
* Designed and created multiple Deployment strategies using Continuous Integration **(CI)** and Continuous Development **(CD)** Pipelines and Configuration Management tools with remote execution to ensure zero downtime and shortened deployment.
* Designed and implemented **microservices-based architecture** using **Docker** and **Kubernetes**

containerization methodologies.

* Hands-on experience in Open source Technologies like PHP, Html, CSS, JavaScripts , Wordpress CMS and Ecommerce.
* **Domain** Mapping, **DNS** Management, Hosting, **SSL** Configuration, Caching, Mail Setup and Configuration.
* Experienced in Cloud automation using, **AWS Cloud Formation**.
* Expertise in troubleshooting the problems generated while building, deploying and also in production support.
* Installations & Configurations of Applications, **MySql** Database, **Nginx** / **Apache** server &

**Tomcat** application server.

* Configuring **Hybrid Cloud** Environments.
* Administration experience with both Unix and Windows based operating systems.
* Created and wrote **Shell Scripts** (**Bash**), **Python**, and **PowerShell** for automating tasks.
* Supported various tools administration **Ansible, Chef, Goanywhere, Cloudera, TICK(InfluxDB, Telegraf, Kapcitor), ELK(Elasticsearch/Logstash/Kibana), Splunk, MongoDB, PostgreSQL, MSQL, Terraform, Splunk, MarkLogic, Connect Direct,DynaTrace,Helm.**
* Experience in setting up **TLS/SSL** communication across application and Databases.
* Handled Multiple tasks simultaneously, prioritized and always met deadlines.

**Employment History:**

* + Worked as a DevOps Engineer in SOAFEE, from May-2022 to Present.
  + Worked as a DevOps Engineer in Freddies Flowers, from Nov-2021 to Mar-2022.
  + Worked as a DevOps Engineer in Scottline Technologies, from Mar-2017 to Nov-2021.
  + Worked as a Full Stack Engineer in Scottline Technologies, from Sep-2014 to Feb-2017.
  + Worked as a Software Engineer in G V Softech, From Feb-2010 to Aug-2014.
  + Worked as a Web application Developer in North East IT Ventures, from Feb-2009 to Jan- 2010.

**Technical Skills:**

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| --- | --- |
| Operating Systems | Ubuntu, CentOS, Red Hat, Windows Server 2003/2008. |
| Languages | Shell Scripting, Python, JSON, YAML, Jquery, Java Script, PHP, NodeJS |
| Cloud & Virtual Tools | Amazon Web Services, Virtual Box, VMware |
| Continuous Integration Tools | Jenkins, Bamboo, |
| Infrastructure as Code | Teraform |
| Configuration Management Tools | Chef, Puppet, Ansible |
| Version Control Tools | Subversion, Git |
| Web / Application Servers | Apache, Tomcat, Nginx |
| Build & Release Tools | Ant, Maven |
| Databases | Mysql, MS Sql Server 2008 R2, Cassandra |
| Monitoring Tools | Nagios, Cloud Watch, Splunk |

**Education:**

* + Bachelor of Computer Science from QIS College of Engineering and Technology in 2007.

**Professional Experience:**

**Project: SOAFEE™ May 2022 - Present**

**Client: SOAFEE, USA**

**Role: DevOps Engineer**

Responsibilities:

* + Working on AWS Infrastructure Development for various applications.
  + Involved in Design & Architectural Diagrams for different applications before migrating into Amazon cloud for flexible, cost- effective, reliable, scalable, high-performance and security.
  + Designed ELK architecture for search and analytics.
  + Deployed and configure single-node and multi-node Elasticsearch cluster.
  + Administrating various environments for maintenance and support.
  + Installation and configurations of NodeJs, AngularJs and python apllications.
  + Developing and mapping API’s using NodeJs.
  + Implementation of AI Based Chat bot using Amzon Lex and supported Python developers for setting up smart voice assistants ( Alexa and Google Home ).
  + Enabling and connecting AWs userpool to the application.
  + Automating the agreement signup process using DocuSign, SignNow,Zapier,HubSpot etc.
  + Worked on Standardizing Build & Deployment method. Involved in creating new environments for testing purposes.
  + Used service mesh to implement dynamic service discovery and traffic management including traffic shadowing, traffic splitting, and service-to-service communication reliability.
  + Developed and maintained integration and release processes.
  + Install, configure, and maintain Kubernetes clusters.
  + Maintained and coordinated environment configuration, controls, code integrity, and code conflict resolution.
  + Supported and developed tools for integration, automated testing and release management.
  + Root cause analysis of incidents, problems and Trend analysis, suggesting permanent fixes.

**Project: Box Margin Planner Nov 2021 - Mar 2022 Client: Freddies Flowers, UK**

**Role: DevOps Engineer**

Responsibilities:

* + Installing and configuring Laravel on AWS EC2 instances through Forge.
  + Implemented BMP Application individually based on business requirements.
  + Integrated Ecommerce platform API’s in BMP Tool.
  + Worked on Deployment Automation.
  + Configured SENTRY Monitoring Tool.
  + Spin up infrastructure over teh public cloud platforms like, AWS and GCP using Infrastructure as a code (**IAC**) Terraform
  + Monitored Order processing jobs in e-Commerce Production Platform for different time zones.
  + Provide primary operational support and engineering for all Cloud and Enterprise deployments.
  + Expertise in troubleshooting the problems generated while building, deploying and also in production support.
  + Worked with CRUD operations on the documents of an index.
  + Created branches, performed merges in GIT version control system.
  + Involved in writing Python and shell scripts for the compilation and deployment process.

**Project: Patient Alliance Jan 2021 - Nov 2021 Client: Scottline Healthcare, USA**

**Role: DevOps Engineer**

Responsibilities:

* + Define, design and implement cloud-based and hybrid (mix of cloud & on-premise) based infrastructure solutions that includes both virtualized compute and storage.
  + Define, design and implement high availability and disaster recovery solutions that span the cloud and on-premise.
  + Migrated on-premise SVN to cloud.
  + Strong expertise on DevOps concepts like Continuous Integration (CI), Continuous delivery (CD) and Infrastructure as Code (**IAC**), Cloud Computing etc.
  + Worked on infrastructure with Docker Containerization. Collaborated with development support teams to set up a continuous delivery environment with the use of Docker.
  + Creating and networking multiple docker containers for Liferay, MySql,MongoDB etc.
  + Created monitors, alarms and notifications for EC2 instances using CloudWatch.
  + Deploying WAR files to Liferay Tomcat using Jenkins.
  + Identifying, analyzing, and resolving infrastructure vulnerabilities and application deployment issues.
  + Used **Terraform**to write **IAC** (Infrastructure as a code) to build Development and Production environment in **AWS Cloud.**
  + Tracking code migration & testing efforts in all environments.
  + Rally is used as ticket tracking, change management and Agile/SCRUM tools.
  + Used IAM to create and manage AWS users and groups, and designed user's credentials and profiles using AWS IAM.
  + Troubleshooting the Liferay Deployments along with Java Developers.

**Project: Tenders and Ministry Dashboard Apr 2020 - Dec 2020 Client: Ministry of IT, Industry and Commerce (Govt. of AP)**

**Role: DevOps Engineer**

Responsibilities:

* + Maintained Cloud Servers for Tenders based application to ensure zero downtime.
  + Performed software configuration/release management activities for different NodeJS, AngularJS applications for Ministry Dashboard.
  + Created AWS S3 buckets, performed folder management in each bucket, Managed cloud trail logs and objects within each bucket.
  + Worked on various AWS technologies like SQS Queuing, SNS Notifications, S3 storage etc.
  + Used Amazon Route53 to manage DNS zones and also give public DNS names to elastic load balancers IP's.
  + Hands - on experience wif Infrastructure as Code (**IAC**) tools for cloud(s) using Terraform, Vagrant & Packer
  + Performed Branching, Tagging, and Release Activities on Version Control Tools: GIT, GitHub, and clear case.
  + Designed & implemented disaster recovery mechanism by achieving PITR, RTO, RPO for PostgreSQL database.
  + Worked on AWS EC2 Instances creation, setting up AWS VPC, launching AWS EC2 instances

different kind of private and public subnets based on the requirements for each of the applications.

* + Designed and deployed AWS solutions using EC2, S3, RDS, EBS, and Elastic load Balancer (ELB), Auto-scaling groups.

**Project: CareX Mar 2017 - Mar 2020**

**Client: CareX Blockchain Platform Inc, USA Role: DevOps Engineer**

Responsibilities:

* + Involved in planning and implementation of the infrastructure changes, in an Agile manner, to operate mission critical business applications in both a production and non-production environment.
  + Managing releases, including automating release documentation, and integrating with Confluence, JIRA, and other tools to streamline deployments and support high quality software development
  + Created **IAC** solutions through AWS CDK, AWS CloudFormation, AWS CLI, or Terraform leveraging configuration management solutions such as Ansible or PowerShell.
  + Managing and configuring Gitlab repositories, implementing git hooks and various scripts to automate test and deployment.
  + Maintain full nodes for various blockchains Protochain interacts with and find ways to deploy and manage them more efficiently.
  + Configure and manage artifact repositories, such as Docker images, software builds and test data sets.
  + Setting up ethereum nodes on server for transactions sent bitcoin and litecoins.
  + Worked closely with the blockchain engineers to influence decision making and implementation efforts.
  + Efficient in Build and configuration of infrastructure in cloud development through the usage of Terraform tool as **IAC**, and ability of modifying the Terraform modules based on the requirement of development project.
  + Created a new ecommerce platform from the ground up, including designing and developing all aspects of the healthcare website.
  + Worked with management to create an ecommerce strategy that included SEO best practices for increased traffic.
  + Automate the provisioning of new accounts and environments through Infrastructure As Code (“**IAC**”) such as Terraform and/or CloudFormation;
  + Implement monitoring; logging and metric systems.

**Project: Bricks for Beauty Aug 2016 - Feb 2017 Client: BFB, USA**

**Role: Full Stack Engineer**

Responsibilities:

* + Worked in both developer and DevOps Engineer roles.
  + Conducting analysis of website and application requirements.
  + Writing back-end code and building efficient PHP modules.
  + Developing back-end portals with an optimized database.
  + Troubleshooting application and code issues.
  + Worked on File, MySQL, Custom and scheduled adapters extensively.
  + Integration of Java Micro services with PHP.
  + Configurations of Apache, Tomcat App Server etc.
  + Created Docker images and handling multiple images per application
  + Worked on Docker container snapshots, attaching to a running container, removing images, managing Directory structures, and managing containers.
  + Implemented multiple CI/CD pipelines as part of DevOps role for on-premises and cloud- based software using Jenkins, Chef, Docker, and AWS.
  + Worked under SLAs to provide Production Support
  + Fix the Production bugs and Support for the Production and UAT Testing
  + Trouble shooting the issues and analyze root cause
  + Monitoring the Queue and keep it clean
  + Involved in Production, deployments and downtime activities.
  + Involved in Daily Status calls, SCRUM meetings and MOM calls with Client and Business Team.
  + Supported Mobile App Development.
  + Created/Resolved itineraries and endpoints using Enterprise Single Sign On (SSO) and Business Rules Engine (BRE).

**Project: iTunes Affiliated Playlists Sep 2014 - Jul 2016 Client: TuneShare LLC, USA**

**Role: Full Stack Engineer**

Responsibilities:

* + - Providing Administration cum Development Support involves Architecture Planning, Server Build, Environment Maintenance, Server Administration, and Application Development in Dedicated Server.
    - Administer IIS servers for web applications and deploy the code by using SVN.
    - Created Dev, Test, Prod environments and mapped to sub domains.
    - Coordinated with Apple Enterprise team for Affiliation Signup process.
    - Created Apple iTunes Collection Builder account.
    - Developed iTunes gifting Module along with affiliate links by Using WDID, Shared Secrets and Affiliate Tokens.
    - Supported Entire Team for using iTunes Search API’s.
    - Supported Mobile App developer for TestFlight setup and API’s.
    - Worked with Rackspace, Godaddy and Lunar pages Server Support teams for resolving issues.
    - Integrated and linked TuneShare users to DISQUS by using SSO.
    - Developed Celebrity Pages along with admin dashboard with their iTunes Albums feed.

**Project: RCM HealthCare Dashboard Mar 2012 - Jul 2014 Client: GVSoftech, India**

**Role: Senior Software Engineer**

Responsibilities:

* + - Developed landing pages, dashboards and online applications Took concepts and produced design mock ups and prototypes to strengthen designs, enhance user experiences and improve site interactions.
    - Closely worked with project SPOC in developing the functionalities.
    - Supporting development of smooth build testing & releasing process.
    - Handled change request, code patches as expected by the vendors.
    - Helped deployment team & supporting teams to analyze the root cause of bugs related to storage stack.
    - Supported the dev team by collecting code commits from all the team members and performing the smoke test before committing the code in Git.
    - Prepared release notes for every deployment & maintained version backups.
    - Troubleshooting issues raised by the testing team.
    - Helped in the executing of performance teams test cases.

**Project: Digital Training Platform (SAAS) Aug 2010 - Feb 2012 Client: Vibrant Digitals, USA**

**Role: Software Engineer**

Responsibilities:

* + Involved in translating business requirements in to technical design specifications.
  + Involved in High-level DB Schema Design and implementation.
  + Developed Multi Level Login System.
  + Analyzed and finalized third-party Video Streaming solutions which played a major role in implementation and Integration of trainings modules.
  + Monitoring performance of Videos.
  + Webex Integration.
  + Working on Multiple platforms.
  + Improved security to overcome the piracy.
  + Introduced new technologies as needed for a task and make decisions balancing technical need and business impact.
  + Developed and involved in optimizing stored procedures and queries for faster retrieval and server efficiency.
  + Database Monitoring.
  + Designed the process for payments.

**Project: Centralized Billing Dashboard Feb 2010 - Jul 2010 Client: SS Minerals, Singapore**

**Role: Software Engineer**

Responsibilities:

* + Coordinate with client and team to understand the wireframes.
  + Analyzed business documents for the functional and business expectation of the each and every field.
  + Participated in stand up meetings and advised team members in setting up the module deliverables.
  + Developed frontend & stored procedures for the complex modules like price configurations, tax calculations and user authorization from the multiple locations.
  + Developed frontend UI using Html, CSS & Bootstrap and made dynamic through PHP.
  + Designed project schema in MySQL and generated services using JavaScript.
  + Implemented multiple tax rules while generating the invoices based on the locations (state

tax, central tax, mining tax etc).

* + Developed centralized data dashboard to view all the transaction and reports (waybills, logistic details, and DC & invoices).
  + Worked on CentOS Platform for deployments.

**Project: Channel Real Estate Aug 2009 - Jan 2010 Client: Heirloom Capital LLC, USA**

**Role: Web Application Developer**

Responsibilities:

* + Development and deployment of Wordpress CMS.
  + Development and Integration of customized Portal for Lead Generation.
  + Deployment on CentOS Servers using SSH, FTP.
  + Coordinating with clients to determine project scope & timelines while delivering projects within budget.
  + Theme building, bootstrapping and customization.
  + Conducted website performance tests as part of ensuring 100% quality and zero defects.
  + Customized Plug-in’s development.
  + Caching and Security management.
  + Integration of Multiple analytics tools.
  + Integration of Sub domain based applications.
  + Manage user guide to help clients understand site features and management of the portal.
  + Helped in creation of new features useful for new SEO rules.

**Project: SBS Portal Feb 2009 - Jul 2009**

**Client: SBS Group, Singapore Role: Web Application Developer**

Responsibilities:

* + Developed web portal using PHP, MySQL.
  + Supported .net Developers for Desktop application integrations.
  + Optimized the source code to improve performance.
  + Implemented role based security that determines user access permission across the web application.
  + Working with Business people on the requirements and Feasibility study.
  + Provide extensive production support, and fix problems in a short span of time.
  + Working closely with Team Leads and developers on technical issues and time lines.
  + Implemented various Validation Controls for client-side validation, Implemented page level error handling using SEH (Structured Error Handling) and Custom Error page and Error logs.