**Sunil Kumar Nukala**

**DevOps Cloud Engineer**

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# Professional Summary

* Around 12+ years of experience in IT Services industry with 7+ years working as DevOps Engineer and with 5+ years worked in enovia/eMatrix, over two years worked in Java/J2EE Technologies. with global customers.
* Possess Domain Knowledge in DevOps, Product Life Cycle Management with Agile methodology worked on various enovia products (Engineering Central, Library Central, VCC).
* Skilled in Cloud Technologies, DevOps, IT Infrastructure Management and IT Service Management.
* Experience with configuration management tools like Docker, continuous integration tools like Jenkins, Maven build tools, cloud architecture AWS, version control using GIT, SVN.
* Thorough understanding of container orchestration frameworks such as Docker, Kubernetes and automating configuration, deployment and management of clusters and their components.
* Extensive experience in using MAVEN and ANT build tools for the building of deployable artifacts (jar, war, ear) from source code.
* Experience in provisioning services using terraform AWS providers like Amazon EC2, S3, EKS and RDS.
* Experience in overseeing applications using Amazon AWS Cloud which incorporates services like: EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Elastic Beanstalk, LAMBDA, Route 53, Auto Scaling, CloudFront, Cloud Watch, Cloud Trail, Cloud Formation, Security Groups.
* Help the teams in building and deploying java applications and troubleshooting the build and deploy failures.
* Ensure the seamless integration of model development and deployment processes.
* Implement monitoring solutions to track the performance of deployed models in real-time.
* Worked in Upgrade from 10.6 to V62010X.
* Managing Daily Operational risks, issues, dependencies, and Mitigating actions & benefits to enable smooth Operations.
* Experienced in web-based application development using eMatrix, Java, Java Servlets, Java Server Pages, Oracle SQL & PL/SQL.
* Good knowledge of OOPS concepts.
* Good in programming abilities and interface design using Servlets, JSP.
* working experience on StrutsStudio framework.
* Participated in preparation of High-Level Designs and Use Cases based on Business Process Requirement documents.
* Efficient in coding, debugging and testing to make the entire flow of project run smoothly.
* Knowledge in Manual Testing/ Unit Testing.

# Technical Skills

Operating System : Linux, Windows

J2EE Technologies : Servest 2.x, JSP 2.x

Web Technologies : HTML, CSS, JavaScript, XML

Database : Oracle 11,10g, 9i.

Servers : Tomcat.

PLM Tools : EMatrix/Enovia V6

Versioning Tools : Tortoise, SVN

Build Tools : Maven, ANT

Source Code Management : GitHub, Git

Ticket Tracking Tool : Mantis, JIRA

Other Tools and Libraries : Araxis, Beyond Compare

Frameworks : Struts Studio

Continuous Integration : Jenkins

CM & Virtualization : Docker, Kubernetes, Ansible, Terraform.

Cloud Systems : AWS (EC2, Route53, S3, RDS, DynamoDB,

SNS, SQS, IAM), GCP, Azure.

# Employment History

Xceed Technologies Inc; NJ from Aug to till date.

Watzmann Consulting GmBH; Frankfurt from Oct '16 to Jul ’23.

GE INDIA EXPORTS PVT LTD; Hyderabad from Jun’14 to Oct’16.

Intelligroup Asia Pvt Ltd, an NTT Data Co; from Dec '11 to Jan’14.

# Educational Qualification

Master of Computer Applications, CMRIT, Bengaluru, IND-2005

# Professional Experience

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**Client: Amadeus, IND** **Aug 2020– Jun 2023**

**DevOps Lead**

**Responsibilities:**

* DevOps engineers should always collaborate with Quality Assurance (QA) teams and be aware of the testing history throughout the CI/CD cycle. Understanding how your code is tested and maintained requires an understanding of the framework/environments led by QA.
* Understand the tools in the pipeline that serve different purposes, such as Continuous Integration servers, Configuration management, Deployment automation, Containers, Infrastructure Orchestration, Monitoring and Analytics, Testing and Cloud Quality tools, and network protocols.
* MLOps is based on the existing DevOps discipline. Knowing how to automate the entire DevOps pipeline, including app performance monitoring, infrastructure settings, and configurations, is a requirement.
* Model validation, model training, and other aspects of evaluating an ML system are in addition to traditional code tests like unit and integration testing.
* Extensive experience includes DevOps, Build/Release Management, Cloud Management and Containerization.
* Experience in configuring Jenkins/Bit bucket from scratch and administering and automating the process.
* Used Kubernetes to orchestrate deployment, scaling, clustering, and management of containerized applications as Pods. Design and manage CI/CD Pipelines that integrate with AWS, Azure, GCP.
* Set up infrastructure and deployment pipelines to efficiently deploy machine learning models into production environments.
* Manage containerization (e.g., Docker) and orchestration (e.g., Kubernetes) for scalable model serving.
* Establish CI/CD pipelines to automate the process of testing, building, and deploying models whenever new updates or improvements are made.
* Ensure the seamless integration of model development and deployment processes.
* Implement monitoring solutions to track the performance of deployed models in real-time.
* Set up alerts and notifications for potential issues, such as data drift, model accuracy degradation, or anomalies.
* Manage data versioning to track changes in training and inference data to maintain reproducibility.
* Implement model versioning to track different model iterations and facilitate rollback if needed.
* Automate repetitive tasks in the ML workflow to reduce manual intervention and potential errors.
* Use Infrastructure as Code (IaC) techniques to define and manage infrastructure resources as code.
* Ensure that sensitive data is handled securely throughout the ML pipeline.
* Build modern, scalable cloud apps on a cloud platform designed for Java.
* Conducting infrastructure provisioning using Terraform.
* Carrying out infrastructure automation using Terraform.
* Extended experience with IaC, PaC, automated single-click deployment, configuration management, production support.

**Environment:** AWS, Terraform, Kubernetes, Hela Chart, Bit bucket, Jenkins, Code Commit, Code Pipeline, Code Build, Code Artifact, Code Deploy, Docker, JIRA, Unix/Linux Centos 7, Nexus V3, PowerShell, Python, Node.js, Apache Tomcat, Mongo DB, SQL, Nginx, RHEL 7, Splunk.

**Nestle Globe Jan 2019 – Jun 2020**

**DevOps Cloud Engineer**

**Responsibilities:**

* POC on Dockerizing the application.
* Helped the application team to write the various K8S yaml files.
* Onboard the application team to various systems of the Organization to achieve end to end deployment automation.
* Develop CI/CD roadmap and implement it into the project.
* Deployed and maintained and improved performance over containerized applications in EKS to support application development.
* Improve deployment process to GKP (Gaia Kubernetes Platform) based applications.
* Interact with various Product teams in organization to learn and implement the latest offerings from the product teams.
* Developed and maintained end to end CI/CD pipeline for the Kubernetes based applications.
* Deployed Spring-boot applications on Kubernetes using Ansible Tower (Kubernetes deployment, service, secrets and configmaps).
* Designing and architecting applications in AWS cloud. Deployed applications as micro services by creating EKS (Kubernetes) clusters.
* Prepared and gave multiple knowledge transfer sessions to developers and new team members on Kubernetes pods, deployments, services and CICD integration.
* Created Docker images using a Docker file, Continuous Integration/Continuous Delivery model.
* Onboard and integrate Splunk and Grafana tools to the application.
* Participate in on-call schedules in the local time zone.
* Maintenance and support, application migration guidance and support.

**Environment:** Bitbucket, Maven, Jenkins (Jules), Docker, Ansible, Kubernetes, AWS: EC2, S3, Auto scaling, EBS, RDS and Terraform

Is a middleware application that enables web-based client (front-end) applications to easily Interact with various host (back-end) applications SI exposes different Interfaces to clients like xml over HTTP, etc.

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**GE Power** **Nov 2016 – Oct 2018**

**DevOps Cloud Engineer**

**Responsibilities:**

* Worked on installation, configuration and maintenance Red Hat/Amazon Linux/Windows Servers for DevOps environment.
* Configuration of end-to-end Jenkins pipeline jobs for automating build from taking source code which is in GIT to deployment of artifacts and Docker containers on Nexus servers.
* Developed and implemented Software Release Management strategies for various applications according to the Agile process.
* Managed DNS using AWS Route 53 service and maintained secure zone for organization using security groups, network ACLs, Internet Gateways, NAT instances.
* Maintenance of existing shell scripts and writing new ones as per requirement
* Experienced in Creation and maintenance of content for the Ansible playbooks to automatically install packages on servers and implementation of Ansible modules based on customer and community requirements.
* Evolved new tools/methodologies to improve the existing processes.
* Wrote Declarative and scripted Jenkins file’s (Pipeline as a code). Configured nightly builds for Integration testing.
* Taking care of SCM activities like branching, merging for all the releases in a year.
* Imposing best practices on branch creations/naming conventions.
* Prepare the deployment plan for the production team and share the implementation plan with L2 teams.
* Troubleshoot build and deployment issues.
* Estimated the hours for each requirement and prepared sizing docs with help of the manager.
* Prepared page level test cases for the whole application.
* Created and managed cloud VMs with AWS EC2 Command line clients and AWS management console.
* End to End application development from scratch.
* Participating in daily scrum meetings to coordinate with the development team.
* Implemented CICD for the applications, which includes Java and PHP.
* Provided on-call support to the service delivery team, for production deployments.

**Environment**: AWS, Jenkins, Maven, GitHub, Ansible, Docker, SonarQube, Shell scripting.

**GE Power**  **Jan 2015 – Oct 2016**

**Role: Systems Analyst - Agile Releases - 6.0 PLBOM functionality**.

**Responsibilities:**

* Worked on Agile Releases on sub modules.
* Enhance the functionality of Product objects according to the Business rules.
* Customizing the functionality of basic features of PLBOM.

**Environment:** Enovia V6R2012, Java 1.6, JSP, JavaScript, HTML, XML, Oracle 11.2.0, ALM, Beyond Compare, Notepad++, Tomcat, Eclipse.

**GE Power Jun 2014 – Dec 2014**

# **Role: Systems Analyst - Agile Releases - 5.0.**

# **Responsibilities:**

The main goal of this stream will be to expand the functionalities of ENOVIA V6 to the Power Plant data environment.

* Involved in developing and writing code.
* Involved in writing code for the Integrations - Defects.
* Involved in Reviewing the Code.
* Involved in Testing Phase like System Testing, UAT

**Environment:** Enovia V6R2012, Java 1.6, JSP, JavaScript, HTML, XML, Oracle 11.2.0, ALM, Beyond Compare, Notepad++, Tomcat, Eclipse.

**Client: Honeywell** **June 2013 – Feb 2014**.

**Programmer Analyst**

**Responsibilities:** Customization of SWAX Central.

Enhancement of the SWAX Central. Enhancements on sub modules, lifecycle objects and enhancing the functionality of Product objects according to the Business rules of client and Generating reports and customizing the functionality of basic features of SWAX Central.

**Environment:** Enovia V6R2011, Java 1.6, JSP, JavaScript, HTML, XML, Oracle 10.2.0, Certido, Araxis, Notepad++, Tomcat.

**Client: Honeywell** **Oct 2012 – Feb 2013**

**Programmer Analyst**

**Responsibilities:** As a Programmer Analyst, Development (Re-write) for Swax Central from 10.5.3 to Enovia V6R2011.

* Involved in developing and writing code which were brought from Matrix One v10.5.3 to Enovia V6 R2011.
* Involved in developing the PPD module, writing code for the swax re-write.
* Involved in Reviewing the Code.
* Involved in Testing Phase like System Testing, UAT.

**Environment:** Enovia V6R2011, Java 1.6, JSP, JavaScript, HTML, XML, Oracle 10.2.0, Certido, Araxis, Notepad++, Tomcat.

**Client: FRAM** **Dec 2011 – July 2012**

**Programmer Analyst**

**Responsibilities:**

# Upgrade of Engineering, Product & Info Centrals from 10.4 to 10.5 Ematrix

As a Programmer Analyst, responsible for

* Involvement in developing and modifying code which were brought from 10.4 to 10.5 in Engineering Central.
* Involvement in Schema Merging, writing code for the bugs rose in the bug list.
* Involvement in JPO/JSP merging for Common, Components and Product Centrals Appln’s.
* Involvement in Reviewing the Code.

**Environment:** EMatrix 10.4, Java 1.5, JSP, JavaScript, HTML, XML, Oracle 9i, Mantis, Araxis, XLight, Edit Plus, Tomcat.