**OSMAN MOHMMED**

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**Professional Summary**

* Over all 14-year experience in Application development and 7 years in Devops.
* Experienced in cloud strategies, roadmaps, solutions to migrate application over to cloud.
* Experienced in managing servers in multiple environments, handling physical and virtual servers.
* Hands on experience with all version control systems like GIT, Subversion and TFS.
* Worked on both public and private cloud infrastructure.
* Experience in converting monolithic applications into Microservices, containerizing, and deploying to various Kubernetes clusters in Openshift and Amazon EKS.
* Good knowledge using Hashicorp tools like vagrant, terraform and vault.
* Experienced in configuring automating Kubernetes security systems to validate containers for vulnerabilities.
* Experienced in UNIX environment and worked on different flavors of Linux like CentOS and RHEL.
* Good with using/implementing/automating monitoring tools.
* Experienced in developing self-services capabilities via Jenkins pipelines.
* Experienced in implementing and automating CI/CD systems in terms of application and infrastructure to make sure priority branches do not deviate from milestones.
* Provisioned infrastructure setup involving tools like VMWare, satellite.
* Experienced in automating WebLogic and tomcat deployments, monitoring and alerting via Ansible.
* Good knowledge in Amazon Web Services including S3, VPC, ELB, Route 53, Security groups.
* Wrote Ansible Roles and playbooks to provision Pre-production and Production infrastructure including Standing up VMWare nodes, configure them with Prometheus node exporter, installing oracle client, Spunk forwarder etc.
* Expert using build scripting tools like MAVEN and Gradle to construct deployable artifacts jar and wars.
* Performed activities like scheduling Townhalls, giving demo, POC’s, mentoring interns and round the clock supporting the products.
* Excellent communication skills and equally able to work in team and individually without compromising quality of deliverables and trust.

**TECHNICAL EXPERTISE**

| **Languages** | Java, groovy, JavaScript, HTML |
| --- | --- |
| **DevOps Tools** | Ansible, Jenkins, Tower, AWX, Splunk, Harbor, Docker, Kubernetes, Vagrant |
| **Build Tools** | Gradle, Maven |
| **Cloud** | AWS, Openshift, Open stack |
| **Frameworks** | Hibernate 5.0, Spring 6.0 |
| **IDE’s** | Eclipse, Intellij, VC Code |
| **Application/Web Servers** | JBoss 4.x, Tomcat 8.0, WebLogic 12.2.1.3/4, Nginx |
| **Database** | Oracle 19c, MYSQL, Access |
| **Database Tools** | Oracle SQL Developer, TOAD, MySQL Query Browser |
| **Repositories** | Artifactory**,** Nexus |
| **Operating Systems** | RHEL 7/8, CENTOS, Windows, MacOS |
| **Version Control** | CVS, Subversion, Team Foundation Server, GIT – Bitbucket, GitLab, Github Enterprise. |
| **Tracking tools** | JIRA, Service now, Mercury |
| **Virtualization** | VMWare VSphere, Satellite, Oracle Virtual Box |
| **Miscellaneous** | Java Script, HTML, AJAX, LOG4J, JUnit, JQuery, CSS, Crystal reports, Jasper reports, Mercury Quality Center and rational rose. |

**EDUCATIONAL QUALIFICATION**

**Masters** in **Computer Science** **May 2007**

Northeastern Illinois University, Chicago, IL

**Bachelors** in **Computer** **Science and Information Technology**  **May 2004**

Jawaharlal Nehru Technological University, Hyderabad, India

**PROFESSIONAL EXPERIENCE**

**HealthPartners, Bloomington, MN May 2017 - Present**

**Sr Devops Engineer**

* Worked with Technical Product owners, Application development teams, leadership teams to assist in creating infrastructure as code.
* Collaborated with platform teams to provide cost effective solutions to the clients setting ground for adoption for Devops strategy.
* Proficient in n-tier application design and development using Java, J2EE, Servlets, spring and hibernate.
* Converted Java based monolithic apps to spring boot based Micro services.
* Very well experienced with source control tools GIT, SVN etc.
* Mentored and wrote Docker files for various applications.
* Wrote automation to containerize the Microservices, run prisma scans, upload to Docker registry and deploy on Kubernetes cluster.
* Used Kubernetes to orchestrate deployment and scaling of Docker containers.
* Deployment of ConfigMaps, Secrets and Volumes on Kubernetes.
* Extensively used Jenkins pipelines with Groovy DSL to drive all containerize Microservices deployment to Openshift Kubernetes clusters.
* Very experienced on troubleshooting Kubernetes cluster issues.
* Integrated Service now with Jenkins pipelines to validate approvals, check/change states, pager rotation, clearing build alerts.
* Provisioned Openshift infrastructure via Ansible to set up VM creation via VSphere, IP assignments, installing Prometheus node agent client etc.
* Advocated use of public cloud (AWS), demonstrated POC on EKS cluster.
* Implemented AWS Cloud infrastructure automation using terraform to create custom sized VPC, subnets, NAT, EC2 instances, ELB and Security groups.
* Used Ansible and Ansible tower as configuration management tool to perform infrastructure related tasks like creating and maintaining inventory via automation, setting up project and templates for CI/CD’ing nightly builds from various branches, setting up secrets in Ansible vault.
* Involved in writing Ansible roles for implementing logging, cluster validation and Prometheus, fluentd integration.
* Implemented Vagrant scripts to set up local environments to test Ansible scripts locally.
* Implemented integration of Jenkins with Ansible tower wrote Jenkins jobs to invoke Ansible plays and roles.
* Wrote automation to integrate Prometheus alerts with Teams.
* Implemented Prometheus alert rules, silences (with automation for regular maintenance activates).
* Integrated Grafana – Prometheus for creating visuals for various team.
* Implemented custom Grafana Query language to customize dashboards to meet client needs.
* Implemented alert silencing and OC Command scheduling API to empower the maintenance windows and self-healing capabilities.
* Helped other teams as well in writing playbooks for WebLogic patching and integrating WebLogic alerts with Prometheus.
* Involved in giving Townhalls presentations, and scheduling helping sessions to onboard teams on the cloud platform.

**Technologies Used**: Java, Groovy, Spring boot, Openshift, AWS, Kubernetes, Docker, Spock, Junit, Apache Tomcat, Oracle, Unix, LINUX, Intellij, GIT(Bitbucket and GitLab), Jenkins, JFrog, REST, JIRA, ServiceNow, Agile.

**Target, Brooklyn Park, MN Feb 2016 – May 2017**

**Sr Engineer**

* Developed Layer of Ratpack based multiple Micro Services.
* Laid out the underlying infrastructure - setting up Kafka topics, implement logging; integrate services with ELK (Elastic Search, Logstash, and Kibana) stack and Creating Kibana Dashboards.
* Implemented Alerting initially with custom Java based application and later with Elastalert.
* Implemented a complete layer of Camel Pipeline. Integration involved setting up Kafka and Postgres Database via Camel. Implementation involved comparison reports to avoid data loss.
* Worked with a team following Devops-CI/CD Pipeline. Develop-Test-GIT-Jenkins-Artifactory-  
  CHEF(Depoy on Openstack)
* Application monitoring integration with Datadog.
* Containerized applications with Docker.

Technologies Used: Java 8, Ratpack, Spring Boot, Apache Tomcat 6.0, Postgres, myBatis, Hibernate, Datagrip, Unix, LINUX, Intellij, GIT, Jenkins, JFrog, Docker, JUnit, REST, Open stack, JIRA, Agile.

**Thomson Reuters (West Publishers), Eagan, MN June 2008 – Feb 2016**

**Sr Software Engineer**

* Designed and developed various Infrastructure based monitoring tools that are used in Thomson Reuter’s facilities globally to monitor java-based applications.
* Developed various GUI’s with cross browser compatibility to display the statistics by making use of solutions such as multisided tabular and sortable data, EJSC Charts, also exposed api’s as REST Services and integration with Splunk.
* Implemented Infrastructure Error Handling Framework to be used later by various other customer facing and internal applications.
* Received aiming for excellence award for automating the workflow by publishing Product Metadata for release sets and thereby reducing time, effort and resource utilization.
* Received Aiming for excellence awards more than once – for automating the tool that helps in generating release sets, for custom creating a GUI that interact’s with initially with cloud stack and later with Open stack for application deployment, later leveraging the same for auto scaling, for improving the performance of one of the configuration management GUI’s by more than 60% by applying java and SQL best practices.
* Developed an AOP based application for validating JDBC timings in all environments.
* Involved in training and mentoring the team in Bangalore, India on various infrastructure tools. Also worked with various teams across Thomson Reuters for product development, maintenance, and help deployment and testing.
* Support and assist customers from around the globe using our products.

**Technologies Used:** Java 1.5, Java1.6, AJAX, JSP, Servlets, JSTL, Javascript, DWR, CSS, HTML, JQuery, Angular, Apache Tomcat 6.0, Spring 3.0, JDBC, DOM, Hibernate, Oracle 10G,11G, DB Visualizer, Unix, Oracle SQL developer, Eclipse IDE, Team Price server, GIT, JUnit, LINUX, PMD, Windows 7, REST, Open stack , Cloud Stack (Cloud), Agile.

**Urooj LLC July 2007 – May 2008**

**Client: 24 Hour Fitness, Carlsbad, CA**

**Software Engineer (Java/J2EE)**

The Project “Fit24 on Web” is expected to significantly reduce the paper work and manual process related to membership agreements and to enable further business process reengineering.

* Involved in requirement gathering and analysis of requirements, Developed System requirement document based on client’s business requirement in consultation with business analyst.
* Performed large scale sorting of the Offered Products giving control to the user and based on various criteria.
* Designed and Developed an Error handling framework to populate defects to be given to User Interface.
* Developed all point of sale validations.
* Wrote the Payments Application, created request, response elements and performed VeriSign third party integration.
* Designed and build a mass emailing application based on spring mailing API and exposed it as a web-service using Spring HTTP invocation to other services.
* Removed the entire environment related settings from local war and configured externally with JBoss using Spring JNDI bean factory.
* Implemented the spring based Xfire web services removing the existing Axis based web services and thus enhancing the performance of the system by more than 35%.

Technologies Used: Java1.5, JSP, JSTL Tag Library, HTML, Java Script, Spring1.2, Struts1.2, Hibernate3.0, JBoss Application Server, MAVEN, TOAD, Eclipse IDE, Subversion, JUnit, LINUX, Windows XP, JUDE (Building UML Diagrams), Mercury Quality Center.

**Northeastern Illinois University, Chicago, IL September 2005 – December 2006**

**Graduate Assistant, College of Education**

Generating Annual reports and conducting surveys for College of Education NEIU.

* Involved in the meetings for information gathering with the Special Education and Clinical Experience Student Education.
* Created and updated MS Access Forms for generating reports and updated the same on Illinois and National Education Boards.
* Tuned the existing queries to improve the performance.
* Hosted Surveys and Created data bases from which developed a student performance assessment system for national accreditation.

Technologies Used: Microsoft Access, Microsoft Excel, HTML, Survey Gold.

**Renaissance InfoTech, Hyderabad, India September 2003 – September 2004**

**Software Engineer Intern**

Implemented J2ME based Mobile Tourist Guide application or Orange Mobile.

* Involved in full life cycle development and modification of J2ME based application to add new components and features emphasizing maintainability, reliability, scalability and performance.
* Participated in ongoing initiatives to improve processes and establish best practices. Involved in sessions to learn new technologies and evaluated how they could be integrated and utilized to better serve our initiatives.
* Implemented and tuned Complex SQL queries.

Technologies Used: Java, J2EE, J2ME (MIDP 1.0), Servlets 2.4, Struts 1.0, JDBC, Oracle 8.i, Tomcat 4.0.