**VENKATESH PATTEM**

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Description automatically generated Delray Beach, Florida

**Senior DevOps Engineer**

**SUMMARY**

**Certified Senior DevOps Engineer with 5+ years of experience leading the design, automation, and optimization of cloud infrastructure and CI/CD pipelines, consistently delivering high-quality, scalable, and secure solutions.** Proven ability to reduce infrastructure costs **by 15%,** improve application performance **by 21%,** and decrease security vulnerabilities **by 35%** by leveraging a deep understanding of **AWS, Azure**, and containerization technologies (**Docker, Kubernetes**).  
  
 Expertise in infrastructure-as-code (**Terraform**), configuration management (**Ansible, Chef**), and monitoring tools (**Prometheus, Grafana, ELK stack**) to ensure operational excellence and high availability. Adept at collaborating with development teams in Agile/Scrum environments to drive innovation and achieve business goals.

**WORK EXPERIENCE**

**Sr. Azure DevOps Engineer | Fidelity National Information Services, Inc, Florida, USA**

***Dec 2023 – Present***

* **Reduced deployment time by 33% and increased release frequency from** weekly to **daily** by automating the CI/CD pipeline using Git, **Nexus**, **Jenkins**, and **Maven**, enabling faster feedback for developers.
* **Optimized deployment time by 41% and minimized errors during the integration of third-party services** by automating the deployment process using Ansible playbooks, streamlining workflows and improving accuracy.
* **Streamlined provisioning time by 55% and minimized configuration errors** by implementing Terraform to manage infrastructure as code, ensuring consistency and efficiency.
* **Improved application performance by 15% and reduced latency** by developing and deploying **RESTful** microservices using **Java** and **Scala**, ensuring smoother operation **during peak traffic**.
* Developed UI pages with **HTML5**, **CSS3**, **JavaScript**, and **Bootstrap** for creating responsive web pages.
* Developed applications using **J2EE, JSP, Servlet, and Spring Bean Classes**.
* Designed and **configured Azure Virtual Networks** (VNets), **Subnets**, Azure Network Settings, DHCP Address Blocks, DNS Settings, Security Policies, and Routing.
* Built and optimized **CI/CD pipelines** using **Jenkins** and **GitLab CI** for automated deployment and scaling of applications in **OpenShift** environments.
* Managed **Azure Active Directory** and created new groups for users.

**Sr. DevOps Engineer | Brown & Brown, Florida, USA *Nov 2022 – Oct 2023***

* **Decreased build times by 35% and increased deployment frequency from weekly to almost daily** by optimizing the **CI/CD pipeline** and **implementing parallel builds in Jenkins**, enabling faster feedback and more frequent deployments.
* **Spearheaded the deployment and management of containerized applications at scale** by leveraging Docker and Kubernetes, utilizing Helm charts and Kubernetes autoscaling for dynamic resource adjustment.
* **Enhanced application performance by 20% and increased traffic handling capacity by 15%** by migrating to a **RESTful** **microservices architecture** to enhance scalability and performance.
* **Recovered 100% of data within 30 minutes from a crashed database server** by utilizing **Azure Site Recovery** for rapid data recovery and restoration.
* Developed the **RESTful** **Microservices** using **Java** **JDK** 1.8, Scala, on IntelliJ platform by gathering the knowledge of previous phase resources and integration with Oracle.
* Wrote many **shell scripts in UNIX** to call routines.
* Designed, installed, and implemented **Ansible configuration management** system and wrote **playbooks for Ansible** and deploying applications.
* Lead an active integration effort for building out **PaaS** with **Red Hat OpenShift**, **Docker** and working with developers on application containerization effort.
* Implemented **container security** best practices, **vulnerability scanning**, and network policies to ensure secure **OpenShift/Kubernetes** environments.

**DevOps Engineer | Razor Pay, Bangalore, India *Mar 2021 – Jul 2022***

* **Minimized AWS costs by 15% while maintaining optimal performance** by **right-sizing EC2 instances** and implementing autoscaling policies to optimize resource utilization.
* **Improved application response time by 25% during peak traffic** by optimizing Kubernetes autoscaling and resource allocation for critical services to address performance bottlenecks.
* **Automated daily database backups to improve efficiency and data protection** by developing a **Python script** for automated backups, **saving 5 hours of manual work per week.**
* **Strengthened security posture by reducing vulnerabilities by 30% in a containerized environment** by implementing vulnerability scanning using Clair and enforcing role-based **access control (RBAC) in Kubernetes.**
* Developed a third-party service for **Instagram followers and engagement** to automate their growth using **Python, TensorFlow, MongoDB, and REST APIs.**
* Migrated an existing legacy infrastructure and recreated the entire environment within **AWS.**
* **Upgraded** a new reporting system for Instagram users to gain a better understanding of the followers' posts with their engagement score using **Python, Django, PostgreSQL, TypeScript, and React.js**.
* Updated the existing infrastructure architecture for each Kickstart service to scale up or down as needed and to handle sudden increases or decreases in demand **using CI/CD pipeline**, **Kubernetes**, **Docker** and **AWS microservices.**
* **Supported/enhanced Lambda functions in AWS** that queries **Elastic Search** cluster for producing servers.
* Developed **Chef Cookbooks**, Recipes, Roles, Attributes to maintain, update configurations and deploy.
* Installed and configured the applications like Docker and Kubernetes for the Orchestration purpose.
* Automated environment for the DevOps services using **Python and Shell** scripts **managed Maven project dependencies** by creating parent-child relationships between projects.
* Created new build jobs, integration testing jobs and deploy jobs in Jenkins to automate the process.
* Involved in periodic archiving and storage of the source code for disaster recovery.
* Used Apache Tomcat as application server for deploying the artefacts and using configurations of Chef.
* Monitored **AWS clou**d resources and the applications that deployed on **AWS** by creating new alarm, enable notification service using **CloudWatch**.
* Built and administered the **Jenkins** Continuous Integration servers.

**Cloud Engineer | Siemens, Bangalore, India *Mar 2019 – Feb 2021***

* **Maximized resource utilization by 48% and achieved cost savings through server consolidation** by implementing **VMware virtualization** to consolidate multiple applications onto fewer physical servers.
* **Improved application performance and server efficiency by reducing server CPU usage by 40% and improving response times by 20%** by diagnosing and resolving a resource-intensive background process on a Red Hat Linux server.
* Installed and configured **SSH** server on **Red Hat/CentOS Linux environments.**
* Developed and supported the **Red Hat** Enterprise Linux based infrastructure in the cloud environment.
* **Maintained maximum uptime and maximum performance** capacity for Enterprise Production, QA, and UAT/Staging.
* Configuring network services such as **DNS/NFS/NIS/NTP for UNIX/Linux Servers**.
* Accomplished User administration of **UNIX / Linux account using SeOS**.
* Automated tasks using **Korn, Bash Shell scripts**.
* Deployed web applications using **Chef** by developing the cookbook.
* Focused on automation and continuous integration automated local development environment using **Chef** created Development Environments in **Amazon Web Services using services like VPC, ELB, EC2 and RDS instances.**

**TECHNICAL SKILLS**

* **Cloud Platforms & Infrastructure:**AWS (EC2, S3, Lambda, RDS, IAM, CloudWatch, Elastic Beanstalk)  
  Azure (AKS, VMs, Azure DevOps, Azure Active Directory, Azure Site Recovery),GCP
* **Containerization & Orchestration:** Docker, Kubernetes, Helm, Azure Kubernetes Service (AKS), OpenShift, Docker Swarm, Salt Stack, Spinnaker
* **CI/CD & Pipeline Management:** Jenkins, GitLab CI, Circle CI, OpenShift, Travis CI, Maven, ANT, Groovy, Nexus, ArgoCD, Flux
* **Automation & Configuration Management:** Ansible, Chef, Puppet, Terraform
* **Virtualization:** VMware vSphere, vCenter, ESXi, VirtualBox, Windows Hyper-V
* **Programming Languages & Scripting:** Python, Java, Scala, JScript, TypeScript, Bash, Shell Scripting, PowerShell, CScript
* **Databases:** SQL Server, MySQL, PostgreSQL, MongoDB, Cassandra|
* **Monitoring & Logging:** Nagios, Prometheus, ELK Stack, Datadog, Grafana, Splunk, Graylog, AppDynamics
* **Version Control:** Git, GitHub, Subversion, Bitbucket
* **Networking:** Nginx, HAProxy, DNS, HashiCorp Vault, Istio, Linkerd
* **Web Technologies:** HTML, CSS, JavaScript, React.js, Angular, Node.js, Django, Flask
* **Testing:** JUnit, JMockit, Selenium, SonarQube
* **Cloud Cost Management:** AWS Cost Explorer, Cloud Health
* **Log Aggregation & Tracking:** Jira, Bitbucket, Confluence, Jaeger, Open Telemetry

**SOFT SKILLS**

* **COLLABORATION AND COMMUNICATION:** Working with developers, documenting standards
* **AGILE/SCRUM:** Experience with Agile methodologies and tools
* **PROBLEM-SOLVING:** Troubleshooting, responding to operational challenges
* **SECURITY:** Following security policies and best practices
* **COST OPTIMIZATION:** Controlling cloud hosting costs

**EDUCATION & CERTIFICATIONS**

* **MASTER’S IN COMPUTER SCIENCE**

*(Florida Atlantic University, Boca Raton, USA)*

* **AMAZON** certified: DevOps engineer professional
* **MICROSOFT** certified: DevOps engineer expert
* **DOCKER INC** certified: Docker Foundations Professional
* **LAMBDATEST** certified: Test Automation Professional
* **PAGERDUTY** certified: DevOps Professional
* **LINKEDIN** certified: DevOps with AWS
* **LINKEDIN** certified: DevOps Foundations: Continuous Delivery/Continuous Integration