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PROFILE SUMMARY

A Skilled DevOps Engineer with hands-on experience supporting, automating, and optimizing mission-critical deployments in AWS, leveraging configuration management, CI/CD, and DevOps processes:

- Self-motivated Architect / Lead / Consultant / Admin/ Developer experience in system design, development, analysis, and implementation using Microsoft Technologies for enterprise applications.
- **Azure experience** - extended working knowledge in cloud service, **IaaS, worker role, service bus, queue, azure blob, table storages, and API Management**. Configured NSGs for two-tier and three-tier applications. Experience in integrating on-premises servers to **Azure**. **Configured VNets** and **subnets** as per the project requirement. Configure Azure blob storage and **Azure file servers**. Configured private and public facing Azure load balancers etc.
- Enterprise-level experience - Working with large teams and in the architecture of highly scalable, secure, distributed applications aligned with company standards, processes, methodologies, and best practices.
- Proficient in **AWS** Cloud platform and its features which includes **EC2, VPC, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Cloud Formation, Auto scaling, Cloud Front, IAM, S3, and R53**
- Configured **AWS CloudWatch**, Cloud trail, and Simple notification service (**SNS**) for real-time monitoring and alerting of deployed applications and **EC2** instances.
- Implemented for high availability using **AWS** Elastic load balancer (**ELB**) to perform load balancing Across multiple availability zones.
- Capable of configuring and integrating the servers with different environments and creating new machines using configuration management/provisioning tools like **CHEF, ANSIBLE, and PUPPET**.
- Expert in deploying the code through web application servers like **Apache Tomcat, WebSphere**
- Worked with build tools like **MAVEN** and **ANT** to build deployable artifacts such as .war &—ear from source code.
- Familiar with Python, Perl, PowerShell, Ruby, and the most popular scripting languages.
- Experience in **Agile Development- JIRA** for management of agile team projects, application cluster deployments, Load Balancing, and Fail over functionality in clustered environments.
- Experience with networking load balancers such as **Nginx** and **HAProxy**.
- Experience in source code management tools such as **SVN** and **GIT**.
- Experience with creating and administrating virtual machines on **VMWare ESXi** and Infrastructure.
- Extensive experience designing and implementing continuous integration, delivery, and deployment through **Jenkins**.
- Experience in Monitoring teams to identify and troubleshoot server issues using the **Nagios** tool.
- Experience working with various **SDLC** groups (**Development, QA, Configuration Management**) on project work and solving real-time production system issues.
- Fluid understanding of multiple programming languages, including C#, C, C++, JavaScript, HTML, and XML.
- Experience in Designing and developing Oracle forms & reports.
- Ability to work independently and as a team; highly **motivated, independent learner** with exceptional communication skills.
- Excellent Client relation skills, the drive to complete tasks effectively and efficiently where customer services and technical skills are demanded, and the ability to communicate effectively with all levels of management and the client community.

SKILLS

- **Cloud Platforms** - AWS (EC2, VPC, EBS, SNS, RDS, CloudWatch, CloudTrail, CloudFormation, Auto Scaling, IAM, S3, Route53), Azure, GCP
- **Infrastructure as Code**- Terraform, CloudFormation, Ansible, Puppet, Chef
- **Containers & Orchestration** - Docker, Kubernetes
- **CI/CD & Automation** - Jenkins, GitLab CI/CD
- **Monitoring & Observability** - Datadog, Grafana, Prometheus, Nagios, CloudWatch
- **Programming Languages** - PowerShell, Perl, Python, Go, Ruby
- **Operating Systems** - Red Hat Linux, Windows Server
- **Application Servers** - Apache Tomcat, JBoss, IBM WebSphere
- **Version Control** - Git, SVN, GitLab
- **Databases** - Oracle, MySQL
- **Project Management** - Jira, Agile methodologies

PROFESSIONAL EXPERIENCE

Sr. Site Reliability Engineering

PwC | February 2021 - Present

- Set technical strategy for reliability engineering initiatives, designing and implementing
- enterprise-wide SRE practices that improved application availability from 99.5% to 99.95%
- Designed and implemented comprehensive SLO frameworks and dashboards using Python
- and Prometheus, providing real-time visibility into application performance for leadership
- and engineering teams
- Developed a standardized incident management system that reduced MTTR by 35% through
- automated diagnostics and standardized response protocols
- Created and led implementation of change management and deployment practices that
- decreased deployment failures by 42%
- Established "destructive testing" program using Chaos Engineering principles to verify
- system resilience, resulting in identification and remediation of critical failure points
- Configured and optimized monitoring solutions using Datadog, Grafana, and Prometheus
- to create custom dashboards, logs, and alerting systems for proactive issue detection
- Automated infrastructure provisioning and configuration management using Ansible,
- Terraform, Jenkins, and Kubernetes, enhancing the reliability and scalability of cloud
- deployments
- Developed monitoring strategies for asynchronous (queue-based) and synchronous (realtime) communication
- systems, ensuring robust and efficient data processing
- Served as technical mentor for junior engineers, providing guidance on best practices for
- resilient system design and operational excellence

REGO Developer

Coinbase | *October 2023 - January 2024*

- Developed and implemented Rego policy enforcement for Terraform deployments, ensuring infrastructure changes adhered to company security standards and compliance requirements
- Created custom OPA (Open Policy Agent) policies to restrict deployment time windows, reducing production impact and enhancing system reliability
- Collaborated with DevOps and SRE teams to integrate policy-as-code solutions into existing CI/CD pipelines
- Gained valuable experience with Coinbase's infrastructure architecture and reliability engineering practices

Cloud Architect/ SRE Engineer

FedEx | December 2019 – February 2021

- Utilized my deep expertise in Databricks, Snowflake, and Oracle SQL to architect and implement a seamless

- migration strategy from Snowflake to Databricks, with a strong emphasis on security and compliance using tools like Rego and Open Policy Agent.
- Led and managed the end-to-end project delivery for the migration, collaborating closely with cross-functional teams, including security and infrastructure.
- Developed and implemented fault-tolerant and high-availability solutions, ensuring uninterrupted system operation during and after migration, while also addressing security concerns using Rego rules.
- Employed ETL techniques to ensure accurate and efficient data transfer between Snowflake and Databricks platforms, with a strong emphasis on data security and compliance, leveraging tools like Rego for validation.
- Monitored and optimized performance metrics using CloudWatch and CloudTrail, ensuring system responsiveness and resource allocation met security and compliance standards, including those defined by Rego policies.
- Designed and implemented a serverless microservices architecture using Lambda and Docker containers, enhancing scalability while addressing security best practices.
- Implemented cross-account deployments using AWS CodePipeline, CodeBuild, and CodeDeploy, emphasizing code management and security.
- Utilized AWS Route 53 for High-Availability and Disaster Recovery strategies, ensuring system availability.
- Orchestrated backup processes, including mission-critical Amazon Machine Images (AMIs) production server, with a security-first approach in alignment with Rego policies.
- Developed data querying solutions using AWS Redshift, S3, Spectrum, and Athena services, prioritizing security and compliance without traditional ETL bottlenecks.
- Established Athena data sources on S3 for seamless querying and reporting, adhering to security and governance standards, and validating configurations with Rego.
- Managed a wide range of AWS services including EC2, RDS, VPC, S3, Glacier, CloudWatch, CloudFront, and Route 53 to ensure optimal system performance and availability.
- Configured Docker Engines in virtualized platforms, containerizing multiple applications while considering security measures, including Rego-based security checks.
- Demonstrated expertise in crafting Rego policies tailored to Terraform plan files, ensuring comprehensive validation and control of infrastructure configurations by security and compliance requirements.
- Installed and configured Nagios for comprehensive monitoring, proactively addressing security-related issues such as on-premise disk usage, CPU utilization, and system health, while incorporating Rego-based checks for infrastructure security.

DevOps / SRE Engineer

FedEx | January 2019 – November 2019

- Involved in deploying the complete **Software Development Life Cycle (SDLC)** of the tracking systems Requirement gathering, Conceptual Design, Analysis, Detail design, Development, System Testing, and User Acceptance.
- Develop infrastructure as code using Terraform/Puppet/ CloudFormation tools.
- Build Dev environment - APIGateway, NAS storage, DynamoDB, Linux/windows deployments.
- Automate provisioning and repetitive tasks using **Terraform** and **Docker** container, Service Orchestration.
- Understand and develop Cloudops infrastructure architecture using the IaC using **Terraform**.
- Extensive experience in setting up CI/CD pipelines using Jenkins, Maven, Nexus, **GitHub**, **CHEF**, **Terraform**, and **Cloudops**.
- Modify existing deployments to correct errors, allow them to adapt to new updates, or improve their performance.
- Supervise the Applications and deployments and technologists of other engineering and developers.
- Assisted in designing, building, and maintaining a database to analyze the life cycle of checking and debit transactions.
- **CloudOps** API and UI functionality development testing for every release.
- Support other developers in your knowledge area (For example, in **Oracle - PL/SQL, OA Framework, Oracle Workflow, and Oracle E-Business suite**)
- Resolving the EPDSM tickets like providing Self-services, **NAS storage**, and role management to the **VMs** deployed.

- Develop auto scaling/Auto-zone/Load balancing Cloudops Infrastructure architecture.
- Configure ESC role/image/windows role groups, **LB, GLB, VPC**, Auto Scaling configurations, and Security group based on the cloud's Architecture.
- Coordinate software system installation and monitor equipment functioning to ensure.
- Specifications are met. Regressive testing - end-to-end testing for all releases.
- Work with Network/security/cloud teams and follow standards and policies.
- Coordinate and closely work with developers on issues related to cloudops Assets and help deploy code.
- Workflow monitoring and dealing with the failures from Dev, R&D, and Prod environmental user **Puppet, Linux, VMware, and cloudops UI**.
- Analyze information to determine, recommend, and plan VM specifications and layouts.
- Regressive testing - end-to-end testing for all releases.
- Demonstrated experience utilizing server monitoring tool **Nagios and** interfacing with enterprise-level messaging platforms like **RabbitMQ**.
- Work on **Docker** container snapshots, attaching them to a running container, removing the images, managing the containers, and setting up an environment for development and testing for the redirection of ports and volume.
- System testing for all development tasks based on **Pivotal Tracker's** visualized stories
- Manage **EPDSM ticket** assignments and time tracking systems promptly according to departmental standards. Working with cloud ops Support, Raising Service Requests.
- Responsible for production operations (incident break/fix, change, service requests, management).

DevOps Engineer

MedCrave Group | June 2016 - December 2018

- Implemented and Created Information Architectures, Workflows, and **UX Designs**. Created project timelines & plans and scheduled projects based on resource availability and capability.
- Involving in day-to-day monitoring activities of **RHEL5/6/7** machines and Application Servers, Build and Deployments of web services. Support the code builds by integrating with a continuous integration tool (**Jenkins**).
- Written **Maven** scripts, Installed **Jenkins**, written shell script for end-to-end build and deployment automation.
- Built Continuous Integration environment (**Jenkins**). And Continuous delivery environment (**Puppet**).
- Integrated delivery (**CI and CD** process) Using **Jenkins** and **Puppet**.
- Able to create scripts for system administration, **AWS**, and Azure using languages such as PowerShell and Python.
- Reduced deployment time for critical agile project infrastructure from ~1 month to 2 days
- Conducted statistical analysis on students' demographic and identified target consumers.
- Work closely with business partners and team members to prioritize, define, develop, and deploy new features for reports.
- Work with cross-system teams to improve data quality and data relevance.
- Working knowledge of the Software **Development Lifecycle** and associated processes.
- Partner with Product Management and assist with solutions' design, implementation, and maintenance.
- Manage business operations of the One-Tax application from data validation through reporting. We reached out to target consumers via social media and other channels.

Linux Administrator

Blue Perl | July 2012 – August 2015

- Strong knowledge of **Configuration Management / RPM management processes**
- Well-versed in deployment and subscription management using RH Satellite, **Kickstart**, etc.
- Develop test automation frameworks in collaboration with the rest of the team.
- Establish best practices for standardized and automated deployment of Linux-based instances in context with security, backup, redundancy, and performance.
- Develop and maintain configuration management solutions.

- Interface with multiple development teams to provide services and support.
- Work on growing **AWS** infrastructure with a focus on **Linux implementation**
- Serve as a database administrator for **Oracle** 11G running in Linux Red Hat Enterprise operating systems.
- Perform backup and recovery utilizing **Recovery Manager** (RMAN).
- Secure the system by granting and revoking privileges to manage user accounts, quotas, and database auditing.
- Utilize the Graphical User Interface **Enterprise Manager** (EM) to access data for backup and recovery.
- Participation in scheduled weekend and after-hours work when requested.

EDUCATION

Eastern Michigan University, Michigan, USA

- Master's in engineering management | April 2018

J B Institute of Engineering and Technology, India

- Bachelor of Electrical Communication Engineering | May 2015

CERTIFICATIONS

Amazon Web Services - Solutions Architect Associate

- Azure - Implementing Microsoft Azure Infrastructure Solutions
- Azure - Azure Administrator Associate
- GCP - Associate Google Cloud Certification