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YERRAMSETTI SUSEEL

Sr. AWS Cloud Engineer
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Objective:

AWS Certified Solutions Architect with over 10+ years of experience in designing and implementing cloud-based solutions for large enterprises. Seeking a challenging role in a dynamic organization to leverage my technical expertise in AWS and help clients achieve their business goals.

Education:

UNIVERSITY OF MARYLAND EASTERSHORE, PRINCESS ANNE, MARYLAND, USA **DEC 2016**
BACHELOR OF ENGINEERING IN BIO-INFORMATICS, BHARAT UNIVERSITY, CHENNAI, INDIA **AUG 2011**

LinkedIn:

www.linkedin.com/in/suseel-kumar

Personal Website:

<https://suseelkumar.com/>

GitHub:

<https://github.com/Syerramsetti915>

TECHNICAL SKILLS

AI/ML Platforms	AWS SageMaker, Amazon Comprehend, TensorFlow, PyTorch.
Operating Systems	Linux, Windows, Mac OS, Unix
Build Tool	Jenkins, Docker, GitHub Actions, AWS CodePipeline, AWS CodeBuild, AWS CodeDeploy, AWS Elastic Beanstalk, AWS Amplify, Maven, Nexus.
Scripts & Languages	Shell Script, Python, Ruby, SQL, JavaScript, Groovy, Graph QL.
Version Control Tools	GIT, Bitbucket.
CI Tools	Jenkins, AWS CodePipeline.



Cloud & Automation	AWS
Databases	MySQL, SQL Server, PostgreSQL, RDBMS, DynamoDB, Snowflake
Virtualization / Containers	Docker, Amazon EC2, Kubernetes (EKS), VMware, VirtualBox, AWS Fargate
Applications & Configuration Management	Terraform, AWS CloudFormation, Chef, Puppet.
Web/AppServers	Apache Tomcat, Nginx.
Monitoring & Logging Tools	Splunk, Datadog, Elasticsearch, Amazon CloudWatch, AWS X-Ray
Web Technologies	HTML, JavaScript, React, CSS.
Bug Tracker & Testing	JIRA, Pytest.
SDLC	Agile, Scrum, Waterfall
Security & Compliance	IAM, AWS Config, GuardDuty, SecurityHub, AWS WAF, Shield, KMS
Networking	Direct Connect, PrivateLinks, VPNs
Data Analytics & Processing	AWS Redshift, EMR, Kinesis, Lambda, API Gateway, Spark

WORK EXPERIENCE

Client: Disney Streaming, Manhattan, NY

Sep 2018 – Dec 2023

Role: Cloud Software Engineer

Responsibilities:

- **Infrastructure as Code:** Implement infrastructure provisioning and management using AWS CloudFormation and Terraform, enabling scalable and repeatable cloud environments.
- **Continuous Integration/Continuous Deployment (CI/CD):** Develop and maintain robust CI/CD pipelines using Jenkins, AWS CodePipeline, Git for streamlined deployment processes.
- **Security and Compliance:** Apply comprehensive security measures using IAM, AWS Config, AWS WAF, Shield, KMS, GuardDuty, and SecurityHub, ensuring data protection and compliance with industry standards.
- **Machine Learning Workflows:** Design and automate machine learning pipelines using AWS SageMaker, integrating TensorFlow/PyTorch for deep learning projects, and utilizing SageMaker Studio for collaborative development.

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- **Data Engineering Solutions:** Architect and manage data pipelines leveraging AWS Glue, AWS Glue Crawlers, Athena, and S3, supporting scalable data warehousing with Amazon Redshift and Snowflake.
- **Real-time Data Analytics:** Implement real-time data processing and analytics solutions using AWS Lambda, API Gateway, Amazon Kinesis, and Spark, enhancing business intelligence with AWS Quicksight.
- **Monitoring and Observability:** Enhance system reliability with comprehensive monitoring solutions using Amazon CloudWatch, AWS X-Ray, Splunk, Datadog, Elasticsearch, and integrating New Relic for external insights.
- **Scripting and Automation:** Employ Python, Typescript, Ruby, Bash, and Groovy scripting for task automation, utilizing Boto3 and Lambda for AWS resource management and automation.
- **Network Configuration and Optimization:** Configure and optimize network infrastructure using AWS VPC, Route53, Direct Connect, and managing VPC Security Groups for enhanced security.
- **Container Orchestration and Management:** Manage containerized applications using Docker, AWS ECS, AWS Fargate, and Kubernetes (EKS), ensuring scalable and efficient deployment.
- **Database Management and Optimization:** Administer relational and NoSQL databases including MySQL, Amazon DynamoDB, leveraging AWS Systems Manager for database operations.
- **Server and Application Monitoring:** Implement server and application monitoring frameworks using CloudTrail, AWS Systems Manager, and AWS Elastic Beanstalk for operational efficiency.
- **Communication and Integration Services:** Enhance application communication using AWS SQS, SNS, SES, and Amazon Connect, ensuring reliable message queuing, notification services, and customer engagement.
- **Cloud Network and Application Security:** Deploy network security measures with AWS VPN, AWS Shield, and managing SSL certificates with ACM, integrating AWS WAF for web application security.
- **Web Development:** Skilled in developing dynamic, responsive web applications across the full stack, using Python, JavaScript (ReactJS), and C# for both front-end interactivity and back-end services, with a strong focus on AWS integration for cloud-based solutions and .NET framework for scalable enterprise projects.

Environment: AWS Sagemaker, Athena, AWS, Glue, Datadog, DynamoDB, Chef, Jenkins, EC2, IAM, CloudTrail, systems manager, VPC, Route53, EBS, SQL, ELB, Cloud watch, Cloud Formation, Docker, Jira, AWS CLI, AWS Auto Scaling, Unix/Linux, Python, C#, Typescript, Ruby, Shell scripting, Git.

Client: Harman/Samsung SmartThings, Mountain View, CA

Jan 2016 – Aug 2018

Role: AWS/groovy Engineer

Responsibilities:

- Involved in designing and deploying multitude applications utilizing AWS stack (Including EC2, Route53, S3,
- **AWS Infrastructure & Automation:** Designed and deployed scalable, high-availability applications on AWS using EC2, Route53, S3, RDS, DynamoDB, SNS, SQS, and IAM, focusing on auto-scaling and fault tolerance with CloudFormation.
- **Voice-Controlled Application Integration:** Developed AWS Lambda functions to integrate Alexa and Google Voice with SmartThings for voice-controlled management of cloud-connected devices, leveraging AWS's seamless integration capabilities.

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- **Real-Time Monitoring & Analytics:** Implemented Datadog dashboards for real-time monitoring of AWS Lambda performance, ensuring optimal operation of voice-controlled smart devices.
- **Software Development:** Developed cloud-connected applications using Java and Groovy, enhancing SmartThings device functionality and user interfaces, demonstrating proficiency in modern programming languages.
- **SmartThings IDE Management:** Analyzed and published device handlers and smart apps in the SmartThings IDE, enabling advanced connectivity and control over smart devices.
- **Testing Framework Development:** Designed a comprehensive testing framework for Alexa Canary service, ensuring reliability and performance of voice-controlled smart devices.
- **Docker & CI/CD Pipelines:** Managed Docker deployment pipelines using Jenkins, automating the build and deployment process for application images, showcasing expertise in containerization and continuous integration.
- **Version Control Management:** Managed code repositories on GitHub and GitLab, addressing merge conflicts and ensuring code integrity, demonstrating proficiency in version control systems.
- **AWS Security & Network Configuration:** Configured IAM and Security Groups within Public and Private Subnets in VPC, enhancing security and network efficiency.
- **Active Directory Integration:** Extended Active Directory Domain Services into the cloud, leveraging AWS for enhanced identity management across cloud resources.
- **CloudFormation Templates:** Designed CloudFormation templates for custom-sized VPCs, subnets, NAT gateways, and database templates, enabling automated and repeatable cloud resource provisioning.
- **Local User Provisioning Automation:** Implemented automation for provisioning local user instances in AWS, improving operational efficiency and scalability.
- **AWS Resource Management:** Utilized Chef for configuration management, creating cookbooks to automate AWS server provisioning and application deployments, showcasing expertise in infrastructure as code.
- **Cluster Deployment & Management:** Utilized kube-aws for automating cluster deployment to AWS and managed Kubernetes clusters for container orchestration, demonstrating advanced knowledge in container management and orchestration.

Environment: AWS, Puppet, Jenkins, VPC, Route53, EBS, SQL, ELB, Cloud watch, RunDeck, Cloud Formation, Docker, Jira, AWS CLI, AWS Auto Scaling, Unix/Linux, Python, Ruby, Shell scripting, Git.

Client: CELSTREAM TECHNOLOGIES, BANGLORE, INDIA

AUG2011-SEP2014

Role: DevOps Engineer

Responsibilities:

- **Jira Configuration & Management:** Spearheaded the implementation of Jira as the central defect tracking system, customizing workflows, and integrating plugins to streamline bug/issue tracking processes.
- **Ansible Development:** Authored and maintained a suite of Ansible modules for the upstream Ansible repository, enhancing automation capabilities and contributing to the open-source community.

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- **Build & Deployment Automation:** Integrated Maven with Perforce for efficient management and deployment of project artifacts, establishing a robust CI/CD pipeline.
- **Tomcat & Maven Administration:** Managed a Tomcat repository for Maven artifact deployment, ensuring secure storage of build artifacts and dependencies.
- **Version Control Strategy:** Mentored business units on Subversion branching and merging strategies, fostering a solid understanding of version control best practices.
- **Tool Suite Implementation:** Played a key role in the deployment and integration of tool suites, including Jira and Jenkins, to facilitate continuous integration and issue tracking.
- **Continuous Integration Setup:** Established a CI pipeline using Jenkins, Maven, and Tomcat, automating the build and deployment process to enhance development efficiency.
- **Infrastructure as a Service:** Developed an Openstack-based infrastructure offering Database as a Service (DBaaS) and Load Balancer as a Service (LBaaS), optimizing resource utilization.
- **Confluence Administration:** Implemented Confluence as the corporate wiki, documenting development, and change management protocols to improve knowledge sharing.
- **Scripting & Automation:** Authored custom PowerShell scripts for automating tasks across Office 365, Active Directory, SQL, and VMware, reducing manual intervention.
- **Application Deployment Support:** Assisted in deploying WARs/EARs through the Weblogic Application Server console, ensuring smooth backend updates.
- **Clustered Environment Setup:** Configured a clustered environment using Weblogic Application Server to ensure high availability and scalability.
- **Shell Scripting for Configuration:** Utilized shell scripting for Weblogic application server configuration across various environments, streamlining server setup.
- **Configuration Management Support:** Provided comprehensive support to lead developers on configuration management issues, facilitating smooth development cycles.
- **Software Configuration Management:** Led the creation of the Software Configuration Management Plan, defining protocols for code integration, build management, and environment setup.
- **Issue & Change Management:** Efficiently managed bug tracking and change requests in production environments using Jira, ensuring timely resolution and updates.

Environment: Openstack, Ansible, Jenkins, Jira, Linux, Weblogic, Subversion, Shell scripting.