

Sandeep Guggilla

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Experienced IT professional with over 5 years working in AWS cloud environments, with a strong focus on DevOps and automation. Skilled in building and managing infrastructure using Terraform, CloudFormation, and Ansible, and setting up CI/CD pipelines with Jenkins, Git, and Gradle. Hands-on experience with Linux system administration, Docker, and Kubernetes, including deploying and managing containerized applications. Worked on data engineering tasks such as building ETL pipelines using Apache Spark, PySpark, and Databricks, and handling real-time data with Spark Structured Streaming. Strong knowledge of networking, security, and AWS services, including EC2, S3, RDS, IAM, VPC, and Lambda, along with familiarity with monitoring and logging tools like CloudWatch and the ELK stack. Also have some experience using Azure services for data integration and cloud deployments.

HIGHLIGHTS OF QUALIFICATIONS

- Over 5 years of experience as an IT professional working across cloud, DevOps, and data engineering domains.
- Specializing in AWS Cloud, DevOps, and CI/CD, with strong hands-on experience in automation, configuration management, build, deployment, and release processes.
- Skilled in tools such as Terraform, CloudFormation, Ansible, Jenkins, Gradle, and Git, with experience setting up and managing end-to-end automation pipelines.
- Strong foundation in Linux administration, Kubernetes, and web architectures, with experience deploying applications in containerized environments.
- Designed and optimized ETL pipelines for seamless data ingestion, transformation, and storage across different platforms.
- Collaborated with data scientists to integrate ML models into production workflows and support model deployment.
- Solid understanding of networking, cloud security, and AWS services, including EC2, S3, RDS, IAM, VPC, and Lambda.
- Implemented infrastructure as code (IaC) using Terraform and Ansible to automate provisioning and resource management.
- Created and maintained reusable CI/CD pipeline templates for various data and cloud applications. Worked closely with architects to build reliable solutions, integrating on-premises and cloud-based systems.
- Strong problem-solving skills with a good understanding of data workflows, automation, and system reliability in cloud environments.

SKILLS & TECHNOLOGIES

Cloud Platforms: AWS EC2, S3, RDS, IAM, VPC, Lambda, CloudFormation, CloudWatch, Basic Azure Data Factory, Azure Databricks, Azure Data Lake Storage (ADLS), Azure functions, OpenAI, AzureMonitor.

Data Engineering Tools: SQL, Hadoop, Hive

Reporting Tools: Power BI

Programming Languages: Python, SQL, Core Java, and C.

Operating Systems: Linux, Windows.

Other Technologies: XML, JSON, JIRA, ServiceNow, Confluence, Postman, OpenAPI, Swagger, Agile

Containerization: Docker, Docker UCP/Swarm, Docker-Compose, Kubernetes.

Monitoring tools: Splunk, Nagios, CloudWatch, Prometheus, ELK.

DevOps/Automation tools: AWS Devops, Azure Devops , GitLab , GitHub, Jenkins, Chef, Ansible, Puppet, Terraform, CloudFormation, Docker, Maven

WORK EXPERIENCE

DevOps & Cloud Engineer, MadScientist, Remote

Oct 2024 - Present

- Architected and implemented the backend infrastructure of a global tech platform using AWS services, including EC2, RDS, S3, CloudFront, VPC, and IAM, ensuring high availability and scalability.
- Designed and deployed containerized Node.js applications using Docker and Amazon EKS (Kubernetes), following microservices principles.
- Built secure, production-grade CI/CD pipelines using GitHub Actions and Jenkins for automated testing, deployment, and delivery.
- Used Terraform for infrastructure as code (IaC) to automate provisioning of AWS resources and maintain consistency across environments.
- Managed MySQL database using Amazon RDS in private subnets, configured NAT gateways for secure and controlled internet access.
- Set up CloudFront and S3 for hosting and delivering static content with global low-latency access.
- Integrated Formspree for serverless contact form handling and developed file upload handling via S3 with global CDN access.
- Focused on modular, scalable architecture design inspired by enterprise platforms like LinkedIn and Instagram.

Web and Mobile App Developer, Langara College, Canada

Apr 2023 - Sept 2024

- Completed a postgraduate diploma in Web and Mobile App Development while on a career break to strengthen technical and cloud skills.
- Gained hands-on experience in building and deploying full-stack web and mobile applications using ReactJS, React Native, JavaScript, TypeScript, ExpressJS, NodeJS, Django, and Firebase.
- Developed backend services and REST APIs using Django and Node.js, managed databases with PostgreSQL and MongoDB, and deployed applications using Docker and Nginx.
- Integrated cloud services including AWS (EC2, S3, RDS) and Firebase for hosting, authentication, and real-time database operations.
- Followed DevOps practices using GitHub Actions for CI/CD pipelines and containerization with Docker.
- Built responsive UIs with TailwindCSS and Expo CLI for mobile app development, and used GeoDjango for location-based features.
- Worked in Agile environments with version control using Git and collaboration tools like GitHub.

DevOps Engineer, Techwave, India

Oct 2020 - Apr 2023

- Designed and maintained scalable infrastructure solutions on AWS, working with services like EC2, S3, RDS, VPC, IAM, and Lambda to support various client environments.
- Developed infrastructure as code using Terraform and AWS CloudFormation for automated provisioning and consistent deployments across environments.
- Automated environment setup and software deployments using Ansible for server configuration, application installations, and system orchestration.
- Built secure, reliable CI/CD pipelines with Jenkins, Git, and integrating tools like Artifactory and SonarQube for artifact and quality management.
- Deployed and managed containerized applications using Docker and Kubernetes, including writing YAML configurations for deployments, services, volumes, and secrets.
- Maintained and monitored Linux-based systems, performing updates, log analysis, and system tuning to ensure performance and uptime.
- Monitored production environments using AWS CloudWatch, ELK stack, and Prometheus to detect issues, trigger alerts, and drive proactive resolution.
- Applied best practices in networking and security for VPC design, IAM roles and policies, load balancing, and SSL/TLS certificate management.
- Collaborated with developers, testers, and release engineers to streamline delivery cycles, reduce deployment

times, and ensure environment consistency.

- Participated in planning and implementing backup strategies, disaster recovery procedures, and high-availability setups for critical workloads.
- Contributed to internal knowledge bases and guided junior team members on DevOps practices, tooling, and cloud-native architecture patterns.

EDUCATION

Post-Graduation in Web and Mobile App Design and Development

May 2023 to Sept 2024

Langara College, Vancouver, Canada

Bachelor's in Computer Science and Engineering

Jun 2016 - Sept 2020

RGUKT Basar, India

CERTIFICATIONS

- **AWS Certified Cloud Practitioner** - Issued by Amazon Web Services Training and Certification
- **Deep Learning Specialization** - Issued by Stanford University through Coursera
- **Machine Learning** - Issued by Stanford University through Coursera
- **National Programming Aptitude Test 2017** - Issued by NPTEL India