Monil Samir Mody

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PROFESSIONAL SUMMARY

Accomplished AWS Cloud Engineer with 6 years of progressive experience in AWS cloud infrastructure automation, CI/CD pipelines development, analytics and cost optimization with senior-level guidance. Proven ability to design, deploy cloud solutions, and manage scalable, create resilient infrastructure, and high-availability architectures on AWS, leveraging services like EC2, Elastic Beanstalk, and CloudFormation. Expertise in containerization with Docker and Kubernetes, and skilled in using CloudFormation / Terraform for infrastructure as code (IaC). Adept at automating workflows and deploying cloud-based applications both Server heavy and Serverless using modern DevOps practices and tools including Jenkins, Ansible, and GitHub. Strong problem-solving, Interpersonal and communication skills with a focus on web and database performance tuning, cloud networking, cloud security, cloud monitoring and cost-effective database solutions. Adaptability at collaborating with cross-functional teams to deliver solutions that meet both business and technical requirements with attention to details. Worked in Agile, software development with Object-Oriented Programming (OOP) and DevOps Methodologies.

CERTIFICATIONS

Certified AWS Solution Architect Associate	Aug 2024
Certified Full-stack Developer	Jan 2022 – Aug 2022
Certified Kubernetes Administrative Developer	In-progress

TECHNICAL SKILLS

DevOps Tools: Docker, Kubernetes, Terraform, Jenkins, Git (source control), GitHub, BitBucket, GitLab, Maven, CloudBuild, CloudDeploy, SonarQube, SonarLint, Ansible, Continuous Integration/Continuous Delivery (CI/CD), Athena, AWS Glue, GitOps, NLB (Network Load Balancer), ALB (Application Load Balancer)

Monitoring & Logging: Prometheus, Grafana, AWS CloudWatch, ELK stack, AWS CloudTrail

Cloud technologies: AWS Management Console, CloudFront, CloudFormation, S3 Bucket,, EC2, ElasticCache, IAM, IAM Identity Center, Certificate Manager, Billing and Cost Management, Route 53, RDS, Application Load Balancer (ALB), KMS, Elastic Kubernetes Service (EKS), Elastic Container Service (ECS), Aurora Database, Elastic Beanstalk, Google Cloud Platform Pub/Sub, Simple Notification Service (SNS), Simple Queue Service (SQS), AWS Lambda, Systems Manager, WAF & Shield, Cognito, API Gateway, Kinesis Data Streams, ElasticSearch, AWS Cloud services (AWS), Public cloud environments(AWS, IaaS, PaaS, SaaS), Harness, Virtual Machine (VI, VMware, Oracle), TCP/IP, HTTP GET and POST, Routing, Healthcare Technology, Atlassian Bamboo, Octopus, MSBuild

Database Management: Oracle database, SQL Server, MongoDB, MySQL Workbench, PG-Admin, phpMyAdmin, Aurora PostgreSQL, Aurora MySQL, RDS PostgreSQL, RDS MySQL, Database automation, Data Exchange Integration, Amazon Redshift

Software / Tools: Jira, Eclipse, IntelliJ, SQL Workbench, Agile Environment Experience, Scrum, REST API, Web Services, Apache, Gunicorn, Visual Studio Code (VSCode), Siteground, Linux shell scripting (bash), Unix, Windows, Ubuntu, Microservices, YAML, IIS

Programming Languages: Java, C, SQL, PostgreSQL, Python 3.x, Solidity, C#, Go, TypeScript

Scripting Languages: HTML, CSS, JavaScript, React, JSON, PHP, Bash, Powershell, XML

Frameworks: Spring-boot, OSGI, Node.js, Express, Hibernate, Flask, NumPy, Pandas, Junit, NUnit

Mobile Development: Android Studio, Java, Kotlin, React-Native

EXPERIENCES

Preferred Equine	New York, NY
DevOps Engineer	July 2023 – Till date

- Configured a three-tier architecture within a VPC, with web pages hosted in a public subnet and database in a private subnet using bastion host. Utilized Route 53 for hosting, implemented SSL with Certificate Manager, and enforced security best practices with security groups.
- Designed and managed CI/CD pipelines across Dev, Stage, and Production environments setup using Jenkins pipeline configuration, Docker, SonarQube for troubleshooting, Root cause analysis, and GitHub, ensuring continuous integration (CI) and continuous delivery (CD) and troubleshooting and resolving SonarQube issues. Managed source code repositories with GitHub Actions and Workflows for automating software deployments on push and pull requests.
- Implemented End-to-End DevOps solution integration with AWS CloudWatch to monitor CPU utilization and memory usage, ensuring optimal performance and reliability of AWS resources.
- Created and managed IAM roles for seamless integration between Elastic Beanstalk, EC2 instances, and other AWS resources, ensuring secure and efficient resource access.
- Automated backup from Database snapshots to AWS S3 buckets using a lifecycle policy and encrypted snapshots using KMS managed keys for recovery if the database instance has been corrupted for some reason.
- Created IAM roles to enable seamless integration between Elastic Beanstalk and EC2 instances and other AWS resources.
- Leveraged AWS Cost Explorer to implement billing strategies, reducing server costs from $600 to $250 per year.

- Led the migration of PHP-based website and MySQL database from Siteground to AWS, significantly reducing cost by 50% and optimizing performance. Enhanced MySQL queries and PHP code to meet the modern standards with continuous delivery of development with Proof-of-Concept Development.

- Developed a website using python scripting on AWS EC2 using Flask and Gunicorn, leveraging NumPy and Pandas libraries for data processing and analysis. Deployed both Python and PHP websites on AWS EC2 instances on-demand Auto-Scaling Group using Elastic Beanstalk and an Application Load Balancer (ALB) for high availability and scalable cloud solutions.

Cisco   Milpitas, CA
Mid Software Developer   Feb 2021 – May 2022
- Implemented notification systems on Google Cloud Platform using Pub-Sub to update subscribers on new Cisco product releases. Developed Java applications to fetch user data flow diagnostics via REST APIs, process JSON responses, and store data in Oracle databases.
- Contributed to the migration of Cisco's on-premises websites to the cloud. Created and maintained technical documentation with best practices and developed end-to-end authentication solutions using JWT and OAuth tokens with JUnit Testing.
- Followed Scrum methodologies, providing meaningful updates and adhering to the Software Development Life Cycle (SDLC) to ensure project alignment and progress.
- Deployed applications on the Kubernetes containers using Docker image.

Sallie Mae   Indianapolis, IN
Software Developer   Sep 2020 – Feb 2021
- Designed and implemented API endpoints for manipulating HTML forms, enhancing user interactions with cloud-hosted applications.
- Addressed and resolved errors in cloud management systems and SonarQube repositories, improving the reliability and quality of cloud-based deployments.

Splunk   San Francisco, CA
Junior Software Developer   Feb 2019 – Sep 2020
- Designed, developed, and tested components, templates, and web services using Java.
- Customized components, configurations, and features to meet project requirements.
- Developed workflows for email subscription and implemented Servlets and APIs for enhanced functional Programming.

ACADEMIC PROJECTS / PERSONAL PROJECTS

Swiftrails – College Project   Feb 2024 – May 2024
- Implemented a CI/CD pipeline on GitHub using Jenkins, SonarQube and Docker images to automate builds and streamline development workflows, also worked on setting up the server installations and upgrades.
- Configured IAM and IAM Identity Center for secure user access and deployed the system on EC2 instances with Tomcat and Node.js for cloud optimization to increase server performance and scalability.
- Configured IAM and IAM Identity Center to manage secure user access across AWS resources. Deployed the system on EC2 instances running Tomcat and Node.js, optimizing application performance and scalability.
- Leadership development and deployment of Swiftrails, a train ticketing system using Java Spring Boot and React.

Level-up – College Project   Nov 2022 - Dec 2022
- Developed API endpoints in Java to manage user data for a class dashboard website, implementing JWT authentication for secure login and logout. The website allows students to submit homework and view grades.

NFT Marketplace – Full Stack Mastery Final Project   Mar 2022 – Aug 2022
- Designed and developed an NFT marketplace Single Page Application (SPA) with React as the frontend for seamless interaction with smart contracts. Implemented smart contracts using Solidity to facilitate secure and transparent buying, selling, and locating of NFTs.

Chatly Messenger – Personal Project   May 2021 – April 2022
- Launched the Chatly messenger app, available on Android and iOS, and developed its accompanying website. Enabled users to customize message content according to their preferences. Implemented four layers of privacy and best security practices to protect user data. Led and coordinated a team environment of 8 members in India to ensure timely task delivery and project success.

EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems   NYC, NY
Master's In Computer Science | **Concentration**: DevOps Engineer | **GPA: 3.80**   May 2024

Berkeley College   NYC, NY
Bachelor's In Information Technology Management | **Honors:** Dean's list | **GPA: 3.34**   Aug 2019