UTSAVKUMAR PATEL

AWS CLOUD ENGINEER | DEVOPS ENGINEER

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Profile:

As an AWS Cloud DevOps Engineer with four years of experience, I bring a comprehensive blend of leadership, analytical skills, and technical expertise to every project. I excel in deploying scalable cloud solutions, automating workflows, and implementing continuous integration and delivery pipelines to enhance development processes. My ability to lead teams, manage complex projects, and communicate effectively with stakeholders ensures the delivery of cost-effective, high-quality solutions that align with business goals. Adaptable and customer-oriented, I consistently prioritize client needs and strategic planning to drive innovations and improvements in cloud infrastructure

Professional Summary:

- With **4+ years** in **AWS Cloud** and **DevOps**, excel in optimizing scalable cloud solutions using **EC2, S3, Lambda**, and more, proficient in designing advanced AWS network architectures including **VPCs, DNS,** and **Route 53**
- Expert in configuring **AWS Elastic Load Balancing** and **Auto Scaling** groups to maintain application performance and availability during load spikes
- Extensive experience in deploying and managing **database** technologies such as **RDS, SQL, and DynamoDB** to ensure high availability and performance
- Hands-on in **Python**, **Bash**, and **PowerShell** scripting to automate cloud deployments and streamline operations
- Expertise in implementing **AWS CloudWatch, ELK Stack**, and **Prometheus** for comprehensive monitoring, logging, and performance tracking
- Strong background in **AWS security** implementations using **IAM, WAF**, **Security groups,** and **AWS Shield** to ensure security compliance and data protection
- Specialized in deploying and managing **microservices** architectures and containerized applications using **AWS ECS, EKS, Docker**, and **Kubernetes**, enhancing **scalability**, fault isolation, and operational **efficiency** by effectively orchestrating deployments and managing **Pods**
- Champion in implementing **CI/CD pipelines** with **Jenkins** and **Git**, and skilled in using **Terraform** and **CloudFormation** for **IaC**, streamlining cloud deployments to enhance development and operational reliability
- Specialized in designing and implementing continuous integration and continuous delivery pipelines using **AWS Code Build, Code Deploy**, and **Code Pipeline** to streamline development and deployment processes
- Proficient in managing **SLAs, SLOs**, and **SLIs**, leveraging **IaaS, PaaS**, and **SaaS** solutions, while effectively **communicating** with **stakeholders**, working as a **team player** within **agile** environments to enhance project delivery and stakeholder satisfaction

Work Experience

DevOps Intern **Headstarter AI, Canada** **Jul 2024 – Dec 2024**

- Worked on AWS services Elastic Compute Cloud (EC2), Simple Storage Service (S3), (RDS), Elastic Beanstalk, EMR, ECR, EKS, IAM, CloudFront, SNS, VPC, SES, Code Build, code Deploy, Code Pipeline
- Implemented cloud policies to ensure compliance and security across cloud environments, and managed technology requests to streamline operations and address organizational needs effectively
- Developed and deployed optimized AWS networking and serverless solutions, enhancing infrastructure performance and security using services like VPCs, subnets, AWS Lambda, and API Gateway
- Assisted in implementing Infrastructure as Code (IaC) using tools like Terraform and AWS CloudFormation to automate the provisioning of cloud resources
- Built and maintained AWS CI/CD pipelines for streamlined updates and managed Docker containers, optimizing deployment processes and configurations
- Created robust monitoring and alerting systems using CloudWatch and Grafana to proactively identify and resolve issues, ensuring high availability and performance
- Built custom Jenkins plugins to automate the deployment of third-party services into the AWS environment, and skilled in creating pods, deploying applications to Kubernetes, and leveraging scaling and self-healing features for high availability
- Developed custom scripts in Python and PowerShell to automate routine system administration tasks, increasing team productivity by automating repetitive tasks
- Led AWS cost optimization initiatives, utilizing tools such as AWS Trusted Advisor and Cost Explorer to save up to 20% on monthly cloud expenditure

Cloud Web Developer **Saurabh Web Solution, India** **Nov 2018 – Jun 2022**

- Architected and implemented a microservices-based web application on AWS using EC2, ECS (Docker), and Lambda, improving deployment frequency by 40% and reducing infrastructure costs by 25%
- Designed, developed, and maintained responsive websites and web applications using HTML, CSS, JavaScript, and PHP, ensuring smooth user experiences across various devices
- Developed and optimized front-end components using React.js and Vue.js, collaborating closely with UI/UX designers to enhance website functionality
- Built back-end logic and integrated databases like MySQL and MongoDB, ensuring efficient data management and seamless interaction with the front-end
- Implemented and managed API integrations for extended functionalities such as payment gateways, enabling a seamless user experience
- Optimized cloud resource usage by implementing infrastructure as code (Terraform), enabling reproducible environments and reducing manual configuration errors by 80%
- Implemented robust monitoring using CloudWatch, X-Ray, and Prometheus/Grafana, proactively identifying and resolving performance bottlenecks before customer impact
- Led migration of legacy monolithic applications to containerized architecture on Kubernetes (EKS/GKE), improving fault-tolerance and horizontal scalability by 60%

.Net Developer Intern   **Webial Technology Pvt Ltd, India**   **Jan 2018 – May 2018**

- Developed web applications using ASP.NET and C#, ensuring smooth functionality and a seamless user experience by implementing dynamic, data-driven pages
- Collaborated with senior developers to design database schemas, stored procedures, and queries using SQL Server to ensure efficient data storage and retrieval
- Participated in the full software development lifecycle (SDLC), from requirement gathering and analysis to development, testing, and deployment, ensuring the timely delivery of functional applications
- Assisted in troubleshooting and debugging .NET applications by analyzing system errors and issues, providing effective solutions to improve application performance and reliability

Technical Skillset

EC2	CICD	Code Pipeline	CloudWatch	Python	SQL
S3	Terraform	CloudFormation	Grafana	Bash	RDS
VPN	Git	Lambda	Prometheus	Groovy	MySQL
VPC	Jenkins	Load Balancers	Cloud Trail	PowerShell	DynamoDB
IAM	Docker	Ansible	ELK Stack	VMs	MongoDB
DNS	Kubernetes	Agile	Golang	ECS	Helm
AMIs	Cloud Build	Cloud Deploy	Security Groups	WAF	GitHub Actions

Education

- P.G Diploma in Web Development, Conestoga College Canada
  Sep 2022 – Feb 2024
- Masters in Information Technology, Sardar Patel University, India
  Sep 2016 – Apr 2018
- Bachelors in Computer Science, Sardar Patel University, India
  Sep 2013 – Apr 2016

Certifications

- AWS Cloud Practitioner
- AWS AI Practitioner
- AWS Solution Architect Associate AWS
- HashiCorp Certified: Terraform Associate (003)