

JAINISH PATEL

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PROFESSIONAL SUMMARY

Certified AWS Solutions Architect – Professional with expertise in Enterprise Architecture, Solution Architecture, and Infrastructure Design. Skilled in developing and optimizing system architectures, improving workflow management, and implementing cost-effective security solutions. Adept at designing scalable, secure systems with a strong focus on user privacy, network health, and encryption strategies. Experienced in creating clear, concise guidelines, and troubleshooting documentation for both technical and non-technical stakeholders. Proven track record in cloud architecture, AWS services, and IT infrastructure management.

PROFESSIONAL EXPERIENCE

Cummins Inc • Columbus, Indiana

PRINCIPAL SOFTWARE ENGINEER

SEP 2024 – PRESENT

- Architected and led the development of scalable, secure, and cost-efficient AWS cloud solutions, optimizing infrastructure and reducing operational costs by 40%.
- Defined and implemented enterprise-wide cloud architecture strategies, ensuring alignment with business goals and industry best practices.
- Led cross-functional teams to drive architectural decisions, ensuring compliance with SOC 2, ISO 27001, and internal security policies.
- Spearheaded modernization efforts, transforming monolithic applications into microservices and serverless architectures, enhancing system performance by 35%.
- Mentored and coached engineering teams, fostering a culture of technical excellence and continuous improvement.
- Implemented disaster recovery (DR) strategies, reducing potential downtime by 60% and ensuring high availability.
- Optimized cloud cost management strategies, leveraging AWS Savings Plans and Reserved Instances, achieving a 20% reduction in cloud expenses.
- Developed API Gateway-based solutions, enabling secure and scalable integrations between microservices and external systems.

SENIOR SOFTWARE ENGINEER

SEP 2021 – AUG 2024

- Transitioned from contractor to full-time, maintaining key responsibilities and contributing to strategic cloud initiatives.
- Designed and implemented AWS architectures for flagship products, achieving a 35% reduction in infrastructure costs and improved system scalability.
- Led the migration of on-premises applications to AWS, implementing autoscaling and continuous monitoring, increasing system availability by 30%.
- Developed automation tools and CI/CD pipelines, reducing manual deployment errors by 60% and improving release cycle efficiency by 50%.
- Strengthened cloud security and compliance by implementing AWS VPC best practices, IAM policies, AWS WAF, and Shield.
- Integrated AWS Step Functions and Lambda, improving workflow automation and event-driven processing.
- Enhanced system observability by introducing OpenTelemetry and Prometheus, improving system monitoring and reducing troubleshooting time by 25%.
- Conducted architecture reviews and assessments, optimizing cloud workloads for performance, security, and cost efficiency.

SOFTWARE DEVELOPER

Contractor (Consultadd, Inc)

FEB 2020 – AUG 2021

- Provided AWS-based solutions and cloud automation strategies for key applications as a contractor under Vendor 2.
- Developed and optimized AWS IoT-based solutions, integrating AWS IoT Core, Lambda, and RDS to enable real-time device data processing.
- Collaborated with DevOps to improve CI/CD pipelines and infrastructure automation, reducing deployment times by 40%.
- Implemented real-time log aggregation using AWS Kinesis and Elasticsearch, improving system troubleshooting and analytics.
- Developed secure API integrations with AWS API Gateway and Cognito, ensuring authentication and access control best practices.
- Led infrastructure-as-code standardization, enforcing CloudFormation best practices across multiple teams.

SOFTWARE DEVELOPER

Contractor (Nzyme Inc)

NOV 2019 – FEB 2020

- Contributed to cloud migrations and system optimizations for AWS-hosted applications as a contractor under Vendor 1.

- Designed and implemented monitoring and analytics solutions using AWS CloudWatch, Elasticsearch, and Kibana to track system performance.
- Developed automated infrastructure provisioning, reducing manual configuration efforts by 50%.
- Implemented a centralized logging framework, improving incident response times by 30%.
- Optimized database performance, tuning Amazon RDS and DynamoDB queries, reducing response times by 20%.
- Led security hardening initiatives, conducting AWS Well-Architected Reviews to enforce security compliance.

LiveTechnology Holdings, Inc. • Tuxedo Park, New York

AWS ENGINEER

SEP 2017 – OCT 2019

- Designed and implemented a highly available and scalable cloud infrastructure on AWS for a SaaS startup, resulting in a 30% increase in system performance and a 25% reduction in infrastructure costs.
- Design and deploy AWS infrastructure for multiple projects, including EC2 instances, S3 buckets, RDS instances, and VPCs, ensuring high availability, scalability, and security.
- Automate infrastructure provisioning, configuration, and deployment using AWS CloudFormation and AWS CLI, reducing manual errors, and improving efficiency.
- Configure and maintain AWS services such as AWS Elastic Load Balancer (ELB), AWS Route 53, AWS CloudFront, and AWS Identity and Access Management (IAM), ensuring secure and reliable operation.
- Implement AWS security best practices, including network segmentation, identity and access management, encryption, and auditing, ensuring compliance with industry standards and regulations.
- Monitor AWS infrastructure using AWS CloudWatch, AWS Config, and AWS Trusted Advisor, identifying and resolving issues proactively, resulting in improved uptime and availability.
- Collaborate with development teams to optimize application architecture for AWS deployment, utilizing services such as AWS Lambda, AWS API Gateway, and AWS Elastic Beanstalk, resulting in improved scalability and performance.
- Implemented and maintained AWS security best practices, including IAM, security groups, NACLs, and encryption, ensuring data confidentiality, integrity, and availability.
- Migrated on-premises infrastructure to AWS, including virtual machines, applications, and databases, using AWS Database Migration Service (DMS), and AWS Schema Conversion Tool (SCT), resulting in improved agility, scalability, and cost-effectiveness.

- Built and maintained CI/CD pipelines using AWS CodePipeline, AWS CodeBuild, and AWS CodeDeploy, enabling rapid and frequent deployments, and reducing downtime.

INSIGNIA Technolabs • Ahmedabad, Gujarat, India

NETWORK ADMINISTRATOR

JUN 2014 – JUL 2015

- Designed and maintained the company's network infrastructure, enhancing security and reliability by implementing routers, switches, firewalls, and wireless access points.
- Monitored and optimized network performance, resolving issues and improving efficiency, resulting in increased uptime.
- Configured and maintained network security systems, including firewalls, to safeguard against potential threats.
- Managed intrusion detection/prevention systems, bolstering overall security measures.
- Achieved a 99.9% uptime rate for VPNs, ensuring consistent data confidentiality, integrity, and availability.
- Configured and maintained critical network services (DNS, DHCP, LDAP) for efficient network management and user authentication.
- Implemented centralized management for network devices and software, ensuring consistent configurations and efficient updates.
- Maintained network authentication and authorization systems (Active Directory, LDAP) to ensure secure user access and authentication.

POSIMYTH Innovations • Ahmedabad, Gujarat, India

INTERN - NETWORK ADMINISTRATOR

DEC 2013 – MAY 2014

- Assisted in configuring, maintaining, and troubleshooting LAN, WAN, and WLAN environments, developing expertise in network operations and troubleshooting.
- Contributed to the implementation of network security policies, including firewalls, VPNs, and intrusion prevention systems, acquiring knowledge in network security practices.
- Installed and maintained network hardware and software, encompassing routers, switches, firewalls, and wireless access points, gaining insights into network infrastructure and equipment.
- Developed knowledge in DNS, DHCP, and IP address management, actively participating in IP address allocation and management tasks.
- Played a role in configuring and maintaining network authentication and authorization systems, such as Active Directory and LDAP, gaining hands-on experience in user access and authentication.

- Contributed to the development of comprehensive network documentation, including topology diagrams.
- Ensured effective resource management by maintaining documentation for hardware and software inventory.
- Upheld documentation accuracy through regular updates to network configuration files.

EDUCATION

AUG 2015 – JUN 2017

Master of Science (M.S.), Computer Science

San Fransisco Bay University - Fremont, California

AUG 2009 – JUNE 2014

Bachelor of Engineering (B.E.), Computer Engineering

Gujarat Technological University - Ahmedabad, Gujarat, India

CERTIFICATIONS

- **AWS Certified Solution Architect – Professional**
Amazon Web Services (AWS)
- **Certified SAFe® 6 Architect**
Scaled Agile, Inc.
- **Certified SAFe® 6 Practitioner**
Scaled Agile, Inc.
- **Microsoft Certified: Azure Administrator Associate**
Microsoft
- **Microsoft Certified: Azure Fundamentals**
Microsoft
- **Programming Foundations: Algorithms**
LinkedIn
- **AWS Certified Developer - Associate**
Amazon Web Services (AWS)
- **Learning Nagios**
LinkedIn
- **Programming Foundations: Fundamentals**
LinkedIn
- **AWS Certified Solution Architect - Associate**
Amazon Web Services (AWS)
- **AWS Fundamentals: Going Cloud-Native**
Amazon Web Services (AWS)

- **AWS Cloud Practitioner**
Amazon Web Services (AWS)

TECHNICAL SKILLS

Programming Languages:

Python, JavaScript, Shell Script, PowerShell, HTML/CSS

Web Development:

React, REST APIs, HTML/CSS, Node.js

Databases:

MySQL, PostgreSQL, DynamoDB, AWS RDS, Aurora

Cloud Platforms & Services:

AWS Lambda, AWS EC2, AWS S3, AWS CodeCommit, AWS CodeBuild, AWS CodePipeline, CloudFormation, AWS RDS, SQS, SNS, IoT Core, VPC, WAF, Route 53, SSM, Secret Manager, Trusted Advisor, Cost Explorer, API Gateway, KMS, AWS ECS, AWS Cloud, Microservices, Serverless, IaaS, PaaS, AWS Cloud

Version Control & CI/CD:

Git, GitHub, CI/CD, Jenkins, Docker

Security:

OAuth, SAML, SSO, IAM, Cloud Security

Architecture & Design:

Software Architecture, Cloud Architecture, Containers, Microservices, IAC (Infrastructure as Code), Disaster Recovery

Testing & Automation:

Automated Testing, BDD (Behavior Driven Development), Testing, Debugging

Collaboration & Process:

Problem-solving, Technical Leadership, Collaboration, Communication, Process Automation

Agile/Scrum:

Agile, Scrum, Requirements Gathering

Documentation & Design Tools:

Draw.io, Documentation