

Abhay Singh

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<https://github.com/AbhaySingh31>

SOFTWARE DEVELOPER

AWS Certified Solutions Architect – Associate and AWS Certified Developer – Associate, with 4.7+ years of experience in backend and full-stack development, site reliability engineering, and cloud-native applications. Skilled in Node.js, Python, AWS (Lambda, API Gateway, ECS, EKS, DynamoDB, S3, Glue) and infrastructure automation. Experienced in serverless design, container orchestration, observability (CloudWatch, Opentelemetry, Splunk), and secure cloud-native architecture. Adept at building CI/CD pipelines, optimizing performance, and collaborating in Agile environments.

SKILLS

Cloud Platforms: AWS (Lambda, API Gateway, DynamoDB, S3, RDS, EC2, Step Functions, EventBridge, SQS)

Backend & Full-Stack Development: Express, Javascript, NodeJS, Python, RESTful APIs

Monitoring & Reliability: AWS CloudWatch, Honeycomb, Opentelemetry, ServiceNow, Slack/Teams integrations, Splunk

Infrastructure as Code (IaC): CloudFormation, Terraform

Frameworks & Tools: Docker, Swagger

CI/CD & DevOps: AWS CodePipeline, Bamboo, GitHub Actions, Jenkins

Version Control & Collaboration: Git, GitHub, Microsoft Teams

Containerization & Orchestration: AWS ECS, Docker, Kubernetes

WORK EXPERIENCE

Tata Consultancy Services • 04/2021 - Present

Developer

- Led the development of data migration pipelines using Attunity for seamless data transfer between on-premises systems and AWS cloud storage, leveraging AWS Glue for robust ETL processes.
- Developed and maintained scalable ETL pipelines using AWS Glue and Lambda for transforming on-premise data to Redshift via S3.
- Integrated structured data from multiple relational sources using Attunity and AWS Data Pipeline.
- Wrote custom PySpark jobs on Glue for cleaning and transforming semi-structured data (JSON, CSV).
- Automated pipeline triggers and error notifications with Step Functions and SNS, cutting manual intervention.
- Participated in agile sprints and collaborated with teams to enhance pipeline performance and resolve bottlenecks.

System Engineer

- Built event-driven workflows using AWS Lambda, Step Functions, SQS, and SNS to support asynchronous backend services.
- Improved pipeline visibility and reliability by contributing to internal monitoring scripts and alerting setups.
- Collaborated with cross-functional teams to integrate event-driven services with existing microservices architecture.
- Assisted in optimizing AWS resource usage and automating repetitive operational tasks to improve system efficiency.
- Contributed to internal monitoring scripts and alerting setups, enhancing pipeline reliability, reducing downtime, and providing real-time insights for quicker issue resolution.

EDUCATION

Bachelor of Engineering (Honours) in CSE

Gyan Ganga College of Technology • Jabalpur • GPA: 7.62/10 • 01/2016 - 01/2020

CERTIFICATIONS

AWS Certified Developer – Associate

AWS Certified Solutions Architect – Associate

AWS Certified Cloud Practitioner

Microsoft Certified: Azure Fundamentals

PROJECTS

Serverless Blogging Platform • 10/2023

Personal Project

- Developed a blogging platform with serverless architecture using AWS Lambda, API Gateway, S3, DynamoDB, and Cognito.
- Set up automated CI/CD with AWS CodePipeline and implemented secure user authentication.

Real-time E-commerce Order Processing System • 01/2022

Personal Project

- Created an event-driven order processing system using AWS Lambda, Step Functions, SQS, and SNS.
- Developed scalable backend services in Node.js to manage order fulfillment workflows.
- Utilized AWS Step Functions to orchestrate and manage workflows across microservices, ensuring seamless order fulfillment.
- Integrated AWS SQS (Simple Queue Service) and SNS (Simple Notification Service) for reliable message queuing and event-driven communication between services.
- Implemented event-driven architecture using Node.js for backend services, facilitating scalable and responsive order management.