

Abhishek Singh

Vice President CFM-Engineering/ Aws Certified Solutions Architect Associate/Terraform Associate

Over 11 years of experience in designing and developing projects from the ground up, with a proven track record of resolving complex architectural challenges and implementing cost-effective solutions. A problem-solving expert with a strong engineering background, now eager to apply these skills to the field of AI

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WORK EXPERIENCE

Lead Software Engineer

JPMorganChase

04/2024 - Present

United Kingdom

Achievements/Tasks

- Designed and implemented CFM Data Lake, achieving zero downtime and 100% data availability, while leading a squad delivering cost-optimization technology for cloud and infrastructure spend.
- Developed cost management trackers that identified compute savings opportunities, resulting in monthly savings of 8 million dollars for LOBs.
- Facilitated cross-functional collaboration with the AWS team to identify and resolve bugs in AWS Cost and Usage data. Also provided tailored solutions to various LOB clients for seamless integration with the CFM Data Lake.
- Single-handedly managed CFM Data Lake operations, including feature development, such as integration with Cloud Vision—and ongoing maintenance.
- Optimized the process and code for generating CFM trackers, resulting in a 60% reduction in manual effort.
- Designed and implemented end-to-end automation for Cloud Financial Management of AWS costs and usage reporting—migrating from manual Excel-based processes to a centralized Data Lake with API-based access and reducing 50% of human effort.

Senior Software Engineer

Bally's Interactive

04/2022 - 04/2024

London, United Kingdom

Experience Overview

- Engineered backend microservice with ElasticSearch and Node Js, targeting 200K rpm to enhance performance and scalability.
- Designed and implemented a scalable architecture for microservices, reducing response time by 80% and enhancing user experience.
- Optimized application and infrastructure(k8) to handle 100K requests per minute for NodeJs/TS microservices.
- Implemented optimization to deliver a payload of size 1MB in production. Used NetScaler and Redis.
- Implemented contract-testing for services for Microservices.
- Designed and developed Automation using a defined flow to fetch content from Contentful CMS to ElasticSearch

Senior Software Engineer

Eros International(Eros Now)

11/2020 - 04/2022

Experience Overview

- Helped in moving 70 Million records from legacy to new system using Python script and Azure data factory.
- Developed MicroServices using Django(Python).
- Used Flask(Python) to automate jobs using AWS Lambda & S3
- Created process for auto-renewal of subscription using Django(Python) and Celery.
- Implemented orchestrator service used by high-traffic telecom clients.

TECHNICAL SKILLS

Aws Solutions Architect

System Design

Jules & Spinnaker(CI-CD)

Python(Django)

FastAPI

Terraform

MCP

Data Engineering

Kubernetes

Data Structures & Algorithms

TypeScript

Mysql

AI Libraries(Keras, Pytorch)

Pandas and Numpy

PostgreSQL

MongoDB

Aws

ElasticSearch

Flask

Agentic AI Development

EDUCATION

Bachelor In Engineering -- 74 % Marks (05/2009 - 05/2013)

AVIT chennai.

Post Graduate Diploma(AI & ML) - 2.7/4 GPA
(03/2018 - 03/2019)

IIIT - Bangalore

AWARDS

Transformer Award. (10/2019 - 10/2019)

Cowrks

2nd Rank in AI based Hackathon(SequoiaHack). (09/2016)

Sequoia Capital

Techie Of the year. (02/2017 - 02/2018)

Faasos

Techie of the Quarter. (01/2017 - 03/2017)

Faasos

Tech Ninja. (10/2017 - 11/2017)

Faasos(For future order system)

CERTIFICATIONS

Aws Solutions Architect
Associate

Aws

Problem Solving

HackerRank 5 Star Problem Solver

Python

HackerRank 5 Star Python Coder

Terraform Associate (003)

Hashicorp

INTEREST

Hackathons

Talks About AI , Data & Engineering

Architecture and Design

Leadership

Innovation

Software Development Engineer - III

Coworks Coworking Spaces

06/2018 - 06/2020

- Re-architected core microservices using AWS and Python, resulting in an **80% reduction in cloud infrastructure costs** through improved resource utilization and scalability.
- Designed and implemented key product features—including referral systems, booking rule engines, and QR-based check-in modules—achieving **zero system failures** in production environments, and reduced check-in time by 50%.
- Built a **data synchronization pipeline** between distributed servers and ERP systems, ensuring zero data discrepancies and real-time consistency.
- **Mentored junior engineers**, conducting code reviews and knowledge-sharing sessions, significantly uplifting team productivity and code quality.

Senior Software Engineer

Pharmeasy(AHWSPL)

01/2018 - 06/2019

- Built a robust **Master Data Management (MDM) system using Django and Django REST** Framework to manage data across 18 warehouses and 100K+ SKUs.
- Designed an intelligent product **auto-mapping algorithm** using Elasticsearch, achieving 90% accuracy and significantly boosting data management team efficiency.
- Developed an API using **AWS Textract** and the auto-mapping algorithm to automate data entry with 50% accuracy in the mobile app, freeing up significant human hours.
- Created a real-time web scraper with BeautifulSoup to extract government public data and update chemist information continuously.
- Developed and maintained scalable **RESTful APIs using Django REST Framework** for high-availability enterprise healthcare systems.

Principal Software Engineer

Rebel Foods(Faasos)

07/2015 - 12/2018

- Engineered a real-time food **recommendation system** that personalized user experience across apps and web, **reducing app open to order** from 2 minutes to 30 seconds.
- Developed daily **demand forecasting reports** using PySpark and Python, improving kitchen planning efficiency and reducing food wastage by 15%.
- **Automated customer retention** reporting and campaign workflows, resulting in 30% higher re-engagement rates through targeted email campaigns.
- Led a 5-member analytics team and owned end-to-end delivery of data products, helping stakeholders drive strategic decisions across 15+ brands.
- Redesigned and optimized the Faasos website and **RESTful APIs**, reducing page load time by 40% and increasing online order conversion by 20%.
- Developed a high-impact **Future Order System in just 7 days**, enabling order placements worth ₹1 million during the festival season.