

Sumedh Mahajan

AI/DevOps/Cloud Engineer

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SUMMARY

Results-driven IT professional with **3+ years of experience** delivering innovative solutions in the **BFSI domain** for clients across the **US and UK**. Skilled in **AWS cloud platforms** and **DevOps culture**, with proven expertise in designing and deploying **AI/ML use cases** that scale seamlessly in the cloud. Adapt at transforming complex data into business-impacting solutions, ensuring operational excellence and precision in delivery. Strong background in collaboration, requirement gathering, and cross-functional communication.

SKILLS

Technical: AWS (SageMaker, Lambda, S3, Rekognition, Comprehend, Transcribe, Bedrock), CloudFormation, SAM, Git, Jenkins, Docker, Ansible, Terraform, Python.

Certifications & Training: AWS Certified Cloud Practitioner, IBM Certified Cloud Advocate

EDUCATION

Conestoga College – Kitchener, Ontario, Canada *Jan 2025 – Present (Expected Grad. Apr. 2026)*

- Postgraduate Certificate in Cloud Data Management, Current GPA – 3.7/4
- Built a Travel Agent using **Google Cloud's MCP Toolbox & Agent Development Kit (ADK)**
- Completed certification of AWS Academy graduate – **AWS Academy Cloud Foundations, AWS IOT Learning Plan: Foundations**

D.Y. Patil College of Engineering – Akurdi, Pune, India

Aug 2017 – June 2021

- Bachelor of Engineering in Information Technology

Y.B Patil Polytechnic – Akurdi, Pune, India

Aug 2014 – June 2017

- Diploma in Information Technology

EXPERIENCE

The Glove (Payroll), India; SoftwareONE (Client) – USA

AI ENGINEER – AWS

09/2024 – 10/2024

- Designed and deployed AI/ML solutions using AWS SageMaker, Lambda, and S3, reducing model deployment time by **30%**
- Architected serverless applications with auto-scaling, optimizing cloud costs by **25%**.
- Built CI/CD pipelines enabling **100% automated deployment** of AI models across development and production environments.

Aaartise Technologies (Payroll), India; 3Gi Technologies (Client)

AWS CLOUD ENGINEER

06/2023 – 09/2024

- Developed image analysis workflows using **Amazon Rekognition**, achieving **95% accuracy** in detecting custom labels (API → S3 → Lambda).
- Implemented sentiment analysis pipelines with **Amazon Comprehend**, processing **10,000+ text inputs** monthly with **98% detection accuracy**.
- Built Speech-to-Text solutions with **Amazon Transcribe**, supporting **5+ languages** and reducing transcription time by **40%**.
- Leveraged **Amazon Bedrock** for LLM prompt generation, automating document and CSV data processing and reducing manual input by **50%**.

- Automated infrastructure deployments using CloudFormation and SAM templates, cutting deployment time for multiple environments by **60%**.
- Applied AWS Well-Architected Framework best practices, remediating **8+ operational gaps**, improving system reliability by **20%**.

Datamato Technologies – Pune, India; YES Bank (Client)

ASSOCIATE SOFTWARE ENGINEER

03/2022 – 05/2023

- Automated Linux package installation and removal processes, reducing manual effort by **70%** using **Urban Code Deploy**.
- Implemented **vCenter Data Center automation** for YES Bank, accelerating configuration tasks by **50%**.
- Delivered password-less SSH authentication for **50+ servers**, reducing login errors by **80%**.
- Conducted housekeeping, thread dumping, and routine automation tasks, enhancing overall system reliability by **20%**
- Explored DevOps and cloud services to optimize automation processes, contributing to faster deployment cycles
- Designed and maintained **CI/CD pipelines** in **Jenkins** with build triggers and post-build actions; integrated **Maven** for Java builds, automated testing, and artifact deployments; managed plugins and configured master-worker node architecture to optimize workload distribution.
- Built and deployed containerized applications using **Docker**; published custom images to **Docker Hub** for team use; orchestrated multi-container environments using **Docker Compose**; implemented **Docker Swarm** for scaling services across nodes; configured **Docker volumes** for persistent storage and backups.
- Automated configuration management using **Ansible Playbooks** (e.g., httpd web server setup, Docker container deployments); created reusable roles and leveraged **Ansible Galaxy** for faster automation.
Provisioned AWS infrastructure (**VPC, EC2, Security Groups**) with **Terraform**; managed lifecycle using init, plan, apply, and destroy; maintained remote state for collaborative infrastructure changes.
- Deployed containerized applications on **ECS** clusters and web applications on **Elastic Beanstalk**; set up CI/CD pipelines using **CodePipeline** for automated application delivery; implemented **RDS database** failover strategies using synchronized and asynchronous replication for high availability.
- Configured **Linux servers** for application hosting, performed user and permission management, automated routine maintenance with **shell/Python scripts**, and resolved OS-level issues to minimize downtime
- Developed Python scripts to automate repetitive tasks such as log parsing, server health monitoring, and data backups, improving efficiency and reducing manual errors.

Datamato Technologies - Pune, India

SOFTWARE ENGINEER TRAINEE

09/2021 – 03/2022

- Shadowed senior engineers and acquired hands-on experience with **Git, Bitbucket, Jenkins, and Docker**; executed **10+ deployment pipelines**.
- Configured **Jenkins** for WAR file packaging, automated build triggers, job scheduling, and post-build actions, reducing manual deployment time by 40%
- Developed low-level design for a Sample Hotel Management Application; implemented best practices for branching strategies, golden copy, and pre-production workflow
- Conducted R&D on Git, Jenkins, and Docker; automated deployment of applications on Apache Tomcat via Docker Hub, saving **15+ hours/week**.
- Implemented **branching strategies (feature, release, hotfix)** to enable parallel development, performed code reviews, and resolved merge conflicts; automated deployments by integrating Git with Jenkins pipelines.
- Used **UrbanCode Deploy** for enterprise-level release automation; implemented **Jenkins pipelines as code** (Groovy DSL) to standardize workflows; executed Docker node updates to maintain clusters with zero downtime