AMAY JAISWAL

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Education

KIET Group Of Institutions	**Ghaziabad**
Bachelor of Technology in Computer Science, 7.3 GPA	*November 2021 - May 2025*

Experience

WebKalakaar Software   **Jaipur**
AWS Cloud & DevOps Intern   *September 2024 - February 2025*

- Worked on the VirtualStation.io project, assisting in designing and deploying **AWS infrastructure using EC2, S3, Lambda, RDS, and DynamoDB**, ensuring scalable solutions that enhanced application performance by 25%.
- Contributed to the development of **CI/CD pipelines using Jenkins,** reducing deployment time by 40%.
- Collaborated with senior developers to integrate **AWS services (CloudFront, IAM, API Gateway) and REST APIs** into existing systems, improving API response efficiency by 35%

Personal Projects

Docker Containerized Flask App with AWS, Terraform, and PostgreSQL   **April 2025**

- Developed and containerized a **Python Flask application** using **Docker & Docker Compose,** reducing deployment setup time by 60% and ensuring 100% environment consistency.
- Integrated **PostgreSQL** in a Dockerized environment, using **Docker Volumes** for data persistence, reducing database downtime by 90% and ensuring seamless container restarts.
- Provisioned **AWS EC2 instance** using **Terraform (IaC),** cutting manual cloud infrastructure setup time by 80% and improving scalability.

Automated CI/CD Pipeline with Jenkins, AWS, Terraform, and GitHub   **March 2025**

- Developed and Deployed a Fully Automated **CI/CD Pipeline utilizing Jenkins, AWS EC2, Terraform, and GitHub,** improving deployment efficiency by 80%
- Integrated **Jenkins with Terraform** for Infrastructure Provisioning, managing **AWS resources (EC2, S3 Bucket)** with Infrastructure as Code (IaC) to ensure consistency and scalability.
- Streamlined Pipeline Execution using **GitHub Webhooks,** triggering Jenkins builds on code commits, enhancing code deployment frequency and accuracy.

Serverless REST API with AWS Lambda & API Gateway   **February 2025**

- Built and launched a serverless **REST API using AWS Lambda and API Gateway,** reducing infrastructure costs by 90% compared to traditional server-based hosting.
- Set up **API Gateway routes**, integrated **Lambda triggers**, and configured **IAM roles** to ensure secure and efficient request processing with 99.99% uptime.
- Utilized **AWS DynamoDB** for **NoSQL storage,** optimizing data retrieval speed and improving API response.

End-to-End Automation with Jenkins, Docker, Prometheus, Grafana, and AWS   **January 2025**

- Led the end-to-end development of a **Jenkins-based CI/CD pipeline** for a **Java** application, utilizing **Docker** for containerized deployments on **AWS EC2,** resulting in a 30% improvement in deployment speed.
- Configured **GitHub webhook triggers** with **Jenkins** to initiate builds and container image pushes to **AWS ECR,** achieving 100% automation in the build and deployment process.
- Incorporated monitoring solutions using **Prometheus, Grafana, and Alertmanager,** leading to a 60% reduction in downtime incidents.

Technical Skills

Languages: Python, JAVA, C, SQL
AWS Services: EC2, S3, IAM, Lambda, DynamoDB, RDS, VPC, CloudWatch, API Gateway, CloudFront, Elastic Beanstalk, EBS, Route 53, SQS, SNS, IAAS, SAAS, PAAS
Scripting: Linux (WSL), Bash/Shell Scripting, PowerShell, AWS CLI/Cloudshell
Infrastructure as Code: Terraform, AWS CloudFormation
Developer Tools: Jenkins, Docker, Prometheus, Grafana, Postman, GIT, Github, Jira/Confluence, PowerBI
Miscellaneous: CI/CD, RestAPI, OOP, MySQL, PostgreSQL, SDLC, STLC, Test Case Generation
Technologies/Frameworks: Cloud Computing, Data Analysis & Visualisation, Agile & Waterfall model, Scrum

Certifications

- AWS Cloud Practitioner Essentials (Amazon Web Services)	*March 2025*
- GitHub Foundations (GitHub)	*February 2025*
- Postman API Fundamentals Student Expert (Postman)	*February 2025*
- SQL Intermediate (HackerRank)	*December 2024*