AMAY JAISWAL

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Education

KIET Group Of Institutions <div align="right">**Ghaziabad**</div>
Bachelor of Technology in Computer Science, 7.3 GPA <div align="right">*November 2021 - May 2025*</div>

Experience

WebKalakaar Software <div align="right">**Jaipur**</div>
AWS Cloud & DevOps Intern <div align="right">*September 2024 - February 2025*</div>
- 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 <div align="right">**April 2025**</div>
- 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.
- Automated **AWS EC2 instance** provisioning with **Terraform (IaC),** cutting manual cloud infrastructure setup time by 80% and improving scalability.

Automated CI/CD Pipeline with Jenkins, AWS, Terraform, and GitHub <div align="right">**March 2025**</div>
- 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 <div align="right">**February 2025**</div>
- 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.
- Integrated **AWS DynamoDB** for **NoSQL storage,** optimizing data retrieval speed and improving API response.

Node.js Backend Deployment on AWS EC2 <div align="right">**January 2025**</div>
- Deployed a **Node.js backend** on **AWS EC2** using Windows PowerShell, ensuring **100% uptime** and efficient request handling.
- Configured **AWS security groups** and networking, **opening required ports** and optimizing instance access, enabling external API consumption.
- Diagnosed and resolved **deployment issues**, successfully launching the **API** and validating responses in **Postman**.

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), PowerShell, AWS CLI/Cloudshell
Infrastructure as Code: Terraform, AWS CloudFormation
Developer Tools: Jenkins, Docker, Postman, GIT, Github, Jira/Confluence, Zephyr, PowerBI, MySQL Workbench
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) <div align="right">*March 2025*</div>
- GitHub Foundations (GitHub) <div align="right">*February 2025*</div>
- Postman API Fundamentals Student Expert (Postman) <div align="right">*February 2025*</div>
- SQL Intermediate (HackerRank) <div align="right">*December 2024*</div>