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

Perception & Quant Research <div align="right">**Remote**</div>
DevOps Engineer <div align="right">*April 2025 - Present*</div>

- Designed and implemented **CI/CD pipelines using Bitbucket,** automating deployments for 4+ projects and integrating **DevSecOps** practices, reducing deployment errors by 50%
- Containerized 10+ microservices using **Docker,** reducing deployment time by 30% and environment inconsistencies by 25% through optimized **Dockerfiles and Docker Compose.**
- Implemented **Prometheus, Grafana, and Alertmanager monitoring** for 4+ applications, achieving 95% uptime and reducing mean time to detect (MTTD) by 40% through threshold-based alerting and real-time dashboards.
- Deployed **ELK Stack (ElasticSearch, LogStash, Kibana)** for centralized logging and dashboards, reducing troubleshooting time by 35% and configured **WireGuard VPN** for secure SSH access across critical servers.

WebKalakaar Software <div align="right">**Jaipur**</div>
AWS Cloud & DevOps Intern <div align="right">*October 2024 - March 2025*</div>

- Worked on VirtualStation.io project, by designing **AWS infrastructure (EC2, S3, VPC, Lambda, RDS, DynamoDB)** using **Terraform,** and created CI/CD pipelines with **Jenkins and GitHub Actions,** improving deployment efficiency and application performance by 25%.

Personal Projects

End-to-End Automation with Jenkins, Docker, Prometheus, Grafana, and AWS <div align="right">**April 2025**</div>

- 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.
- Integrated **Prometheus, Grafana, and Alertmanager** for monitoring and alerting, improving MTTD by 40%.

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,** achieving 80% improvement in deployment efficiency.
- Integrated **Jenkins with Terraform** for Infrastructure Provisioning, managing **AWS resources (EC2, S3 Bucket)** with **Infrastructure as Code (IaC)** to ensure consistency and scalability.

Serverless REST API with AWS Lambda & API Gateway <div align="right">**February 2025**</div>

- Developed a cost-efficient serverless **REST API** using **AWS Lambda, API Gateway, and DynamoDB,** reducing infrastructure cost by 90% and achieving 99.99% uptime.
- Configured IAM roles and Lambda triggers to automate secure request handling, improving API response by 40%.

Docker Containerized Flask App with AWS, Terraform, and PostgreSQL <div align="right">**January 2025**</div>

- Containerized a **Python Flask app** with **PostgreSQL** using **Docker Compose and Volumes,** achieving 100% environment consistency and 90% Database uptime.
- Provisioned AWS EC2 with **Terraform,** reducing manual setup time by 80% and ensuring scalable infrastructure.

Technical Skills

Languages: Python, JAVA, C, SQL, Bash/Shell Scripting
AWS Services: EC2, S3, IAM, Lambda, DynamoDB, RDS, VPC, Route 53, ACM, EBS, API Gateway, CloudFront, Elastic Beanstalk, ECR, CloudWatch, SQS, SNS
CI/CD & DevOps Tools: Linux, Jenkins, GitHub Actions, Bitbucket Pipelines, Git, GitHub, Bitbucket
Infrastructure as Code: Terraform, AWS CloudFormation
Containerization & Monitoring: Docker, Prometheus, Grafana, Node Exporter, Alertmanager, Nginx
Miscellaneous: Postman, RestAPI, MySQL, PostgreSQL, Kubernetes (Basics), GitOps (ArgoCD - Basics), OOP
Methodologies: Agile & Waterfall model, Scrum, Jira/Confluence, SDLC, STLC, Test Case Generation

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>