Prateek Mudgal

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Education

Hindustan College of Science and Technology — Mathura, U.P
Bachelor of Technology in Information Technology — *Aug 2022 – Jun 2025*

DayalBagh Educational Institute — Agra, U.P
Diploma in Electrical Engineering — *Aug 2019 – May 2022*

Experience

OnGraph Technologies Limited — Jul 2024 – Sep 2024
DevOps Intern — *Noida*

- Engineered a two-tier Flask application: Deployed using Docker and Jenkins, integrating SSL, which boosted deployment speed by 30% and enhanced security by 80% through HTTPS.
- Optimized Flask deployment with NGINX: Configured NGINX as a reverse proxy, resulting in a 40% improvement in performance and increased security by mitigating direct server exposure.
- Automated infrastructure for PHP MySQL applications: Used Terraform to create a VPC with 256 IPs, reducing manual provisioning by 80% and improving scalability for both the PHP application and MySQL database.
- Reduced Docker image size by 30%, enhancing deployment speed and resource efficiency.
- Developed CI/CD pipelines for Flask: Implemented Jenkins pipelines to automate Docker image builds and pushes to GitHub, improving deployment efficiency by 70%.
- Implemented DevSecOps for a Node.js ToDo app: Established a secure CI/CD process using Jenkins, SonarQube, and Trivy, improving code quality by 20% and ensuring zero security vulnerabilities in Docker images before deployment.

LinuxWorld Informatics — Sept 2022 – Aug 2023
DevOps Trainee — *Remote*

- Automated backup processes using shell scripting, achieving 100% backup success rate with cron jobs for scheduled tasks, reducing manual intervention by 80%.
- Enhanced scripting and system administration skills, reducing task completion time by 40% through automation and hands-on system management.
- Worked extensively with Linux, AWS, Python, Terraform, Prometheus, Grafana, Docker, and shell scripting, contributing to a 30% improvement in system monitoring and a 50% reduction in deployment time through automation and infrastructure as code.

Projects

Deploy a Highly Available Wordpress Website On AWS
| *Configured secure VPC , IAM roles and policies* — medium.com/AWS

- Utilized EC2 for web/app tiers, RDS for MySQL Backend, and S3 for static asset storage and backups.
- Implemented monitoring with CloudWatch and optimized costs using AWS Billing tools.

DevSecOps for Node.js ToDo App
| *Using CI/CD , Docker , SonarQube , Trivy* — github.com/DevSecOps

- Integrated Jenkins, SonarQube, and Trivy to establish a secure and automated CI/CD process.
- Ensuring code quality and security throughout the deployment lifecycle.

Automated infrastructure for PHP and MySQL
| *Using Terraform* — github.com/Terraform

- Set up infrastructure including a VPC with 256 IPs, split into a 128-IP public subnet for the PHP app and a 64-IP private subnet for the MySQL database.
- Configure security groups, internet, and NAT gateways , and ensure proper routing.

Technical Skills

Languages: Python , C , SQL, YAML
Libraries: Pandas, NumPy
CourseFramework: Database Management System , Software Engineering , Operating System , Computer Networks
Developer Tools:Git/GitHub , Docker , AWS , Jenkins , LINUX , Shell Scripting , TerraForm , Kubernetes , Grafana , Prometheus