Abhay Thakur

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Summary

Final-year student with experience in DevOps, MLOps and cloud projects, focusing on automation, security, and scalable, cost-effective microservices. Skilled in Infrastructure as Code to streamline cloud deployments and improve efficiency. Committed to delivering secure, robust solutions and collaborating with teams to build reliable, scalable systems that advance cloud engineering and DevOps practices.

Skills

Programming: Java,Python, Bash
Cloud Platforms: AWS (EC2, Lambda, S3, VPC)
Containerization: Docker, Kubernetes (EKS)
Operating Systems: Ubuntu, CentOS, Windows
CI/CD Tools: Jenkins, GitHub Actions, ArgoCD
IaC: Terraform, Ansible
Version Control: Git, GitHub
Monitoring & Logging: Prometheus, Grafana
Databases: MySQL, MongoDB
DevSecOps Tools: SonarQube, Trivy, OWASP
Machine Learning: Model development, training, deployment, monitoring, TensorFlow, Keras, Scikit-learn.

Work Experience

Infosys Springboard **May 2024 - July 2024**
AI/ML Intern (Remote)
- Developed a plant disease detection web application using Python and TensorFlow, achieving 96% model accuracy.
- Reduced time to diagnosis by 25% through integrated disease classification and treatment suggestion features.
- Streamlined deployment using Docker/Compose and collaborated on design, reviews, and testing.
- Collaborated in a team, contributed to design discussions, code reviews, and testing of deployed modules.

Project Experience

3-Tier MERN Travel Blog (DevSecOps)
- Delivered a three-tier MERN application on AWS EKS using Terraform and ArgoCD.
- Strengthened pipelines with Jenkins, incorporating SonarQube, OWASP, and Trivy for quality and security.
- Established proactive monitoring and alerting with Prometheus and Grafana to minimize downtime.

AI-Driven Brain Tumor Detection MLOps Pipeline
- Designed deep learning pipeline for MRI-based tumor detection with an interactive web interface.
- Provisioned cloud resources using Terraform and deployed containers on Amazon EKS.
- Achieved reliability with Kubernetes orchestration, Nginx ingress, and observability tools.

End-to-End Microservices Deployment on AWS EKS
- Launched microservices architecture on Amazon EKS leveraging Infrastructure as Code practices.
- Streamlined CI/CD workflows through Jenkins for rapid delivery and controlled rollbacks.
- Adopted GitOps via ArgoCD and integrated monitoring using Prometheus and Grafana.

Education

Bachelor of Technology in Computer Science & Software Engineering **November 2022 - Present**
C.V. Raman Global University, Odisha *Cumulative GPA: 8.59/10*

Higher Secondary Education **Sep 2020 – Oct 2022**
National Infotech School, Birgunj *Cumulative GPA: 8.53/10*

Certifications & Research Papers

- KodeKloud -DevOps Mastery
- Implementation and Performance Analysis of K-NN Algorithm for Classification.

Strengths & Achievements

- Strong problem-solving skills, passionate about automation, and a continuous learning mindset.
- Awarded Fully funded Study in India Scholarship by the Ministry of Education, India.
- Taught basic computer skills to 40+ underprivileged children, boosting digital literacy by 60%.

Additional Information

- Languages Known: English, Hindi, Nepali
- Interests: Interests: Cloud Technologies (AWS), Data-Driven Solutions, Machine Learning and AI, AI-powered apps