BHANUPRASADH SANTRA

Networking Cloud Intern

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EDUCATION

Bachelor of Technology - Computer Science (CGPA: 7.68), Nov 2021 – Apr 2025 | Andhra Pradesh, India
Kakinada Institute of Engineering and Technology
- **Relevent Courses:** *Networking, Operating Systems, Data Structures, Analysis Of Algorithms, Databases*

SKILLS

Languages — Go, Python 3, SQL, Bash/Shell, YAML/JSON

DevOps Tools — Docker, Kubernetes, Jenkins, Git, Terraform, Ansible, GitHub Actions

Cloud Platforms — AWS (EC2, S3, Lambda), Azure, Google Cloud

Databases — MySQL, MongoDB, SQLite, PostgreSQL

Version Control and Deployment — Git/GitHub, GitHub Pages, Heroku, GUnicorn

Web Development — Flask, REST APIs, Bootstrap 4, Authentication, Web design, HTML 5, CSS 3

EXPERIENCE

AICTE, Networking Cloud Intern - Remote Jul 2024 – Present
- Developed cloud networking solutions using **Docker**, **Kubernetes**, **Terraform**, and **Ansible**, achieving a **20%** improvement in deployment efficiency.
- Streamlined CI/CD pipelines with **Jenkins** and **GitHub Actions**, reducing deployment time by **15%**.
- Deployed and monitored applications on **AWS** and **Azure**, enhancing system reliability by **30%** through proactive issue detection using **Prometheus** and **Grafana**.
- Utilized the **ELK Stack** for real-time logging and analytics, improving system troubleshooting efficiency.
- Authored comprehensive technical documentation on IaC workflows and container orchestration, facilitating smoother team collaboration.
- Collaborated with cross-functional teams to implement scalable, automated solutions, driving operational excellence in virtual environments.

PROJECTS

Automated CI/CD Pipeline for Web Applications
- Designed and implemented a CI/CD pipeline using **Jenkins** and **GitHub Actions**.
- Automated testing, containerization with **Docker**, and deployment to **Kubernetes** clusters.
- Reduced deployment time by **40%** and improved development efficiency.

Infrastructure Automation with Terraform and Ansible
- Provisioned and configured cloud infrastructure **(AWS)** using **Terraform** and **Ansible**.
- Automated scaling and configuration management for high-availability environments.
- Improved infrastructure deployment speed by **60%**.

Serverless Application on AWS
- Built and deployed a serverless application using **AWS Lambda**, API Gateway, and **DynamoDB**.
- Achieved cost optimization by leveraging pay-as-you-go pricing.
- Integrated **CloudWatch** for real-time monitoring and logging.

Scalable Microservices on Kubernetes
- Designed a microservices architecture deployed on **AWS EKS** (**Kubernetes**).
- Implemented **Helm** charts for deployment and auto-scaling for traffic spikes.
- Enhanced system reliability and scalability for a high-traffic application.

CERTIFICATIONS

Kubernetes, Kubernetes Operators Intermediate ⧉ Dec 2024

Jenkins, LFS167x: Jenkins ⧉ Aug 2024

RedHat, RH094x: Ansible ⧉ Aug 2024

CODING PROFILES

- Solved around 200 python problems on CodeChef
- Solved around 80 SQL problems on Leetcode