

Lalitha Samyuktha Jayanthi

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Visakhapatnam

Value Proposition

Enthusiastic Data Science graduate with a strong foundation in cloud infrastructure and software development. Proficient in Golang, Python, and Java, with hands-on project experience in architecting scalable cloud environments using Kubernetes, OpenShift, and Istio. Skilled in full code lifecycle management, including development, testing, deployment, monitoring, and debugging. Excellent communication skills and flexibility for cross-time zone collaboration.

Education

- B. Tech | CSE-Data Science | Avanthi Institute of Engineering and Technology | 2025 | 7.88 CGPA
- Intermediate | Sri Chaitanya Jr. College | 2021 | 9.12 CGPA
- Tenth | Sri Chaitanya School | 2019 | 9.5 CGPA

Technical Proficiencies

- Programming Languages: Golang, Python, Java, C++
- Cloud Technologies: IBM Cloud, Kubernetes, OpenShift, Istio, VPC, Akamai
- Tools and Methodologies: Docker, Terraform, Prometheus (for monitoring and alerting), Grafana (for debugging), Git (for code reviews and version control), Jenkins (for CI/CD pipelines)
- Other: Problem-solving, analytical reasoning, agile development, on-call support simulation, infrastructure as code (IaC), security and compliance best practices
- Soft Skills: Strong verbal and written communication, teamwork in global settings, adaptability to time zones

Projects

Scalable Cloud Infrastructure Deployment with Kubernetes and OpenShift

- Architected and deployed a multi-node Kubernetes cluster on IBM Cloud to host a microservices-based e-commerce application, ensuring high availability and auto-scaling.
- Integrated Istio for service mesh management, implementing traffic routing, security policies, and observability features to enhance reliability and compliance.
- Managed full code lifecycle: Developed in Golang, conducted code reviews via Git, automated testing with Python scripts, and deployed using OpenShift pipelines.
- Utilized open-source tools like Prometheus for monitoring and alerting, reducing downtime by 40% in simulated production environments.

Monitoring and Alerting System for Production Services

- Built a real-time monitoring dashboard using Python and Prometheus to instrument, monitor, and debug cloud-based services, focusing on uptime and performance metrics.
- Incorporated alerting mechanisms with Grafana and integrated with Akamai for edge security, simulating on-call rotations to handle out-of-hours incidents.
- Optimized for IBM Cloud VPC environments, ensuring secure and compliant data handling while scaling applications dynamically.
- Collaborated virtually with a team (simulating global agile setup) to refine architectural discussions and drive improvements, resulting in a 25% efficiency gain in build processes.

Internships & Simulations

- AI Intern – AIMER Society | 8 Weeks
- ML Intern – Indian Servers | 8 Weeks
- Data Science Intern – Yhills | 8 Weeks
- Data Science Intern – Prodigy | 4 Weeks
- Job Simulation – TCS | Forage Platform

Certifications

- Google Cloud Gen AI
- Infosys Springboard certification in Software Engineering and Agile development.
- Data Analytics by Jobaaj Learnings.
- SQL by Oracle.
- AWS Certified Cloud Practitioner.

Additional Information

- Languages: English, Hindi, Telugu
- Interests: Contributing to open-source cloud projects, attending tech meetups on agile methodologies and cloud infrastructure