VENKATA SRIMANNARAYANA YASAM

(770) 657-8278 | venkatayasam0714@gmail.com

Linkedin | Portfolio

Atlanta, GA 30080, USA

OBJECTIVE

Seeking a challenging position in cloud engineering to leverage my expertise in AWS, Docker, Kubernetes, and CI/CD. Aiming to contribute to innovative projects at the intersection of cloud infrastructure and DevOps automation.

EDUCATION

- **Kennesaw State University** — *Jan 2024 - May 2025*
  Master of Science, Computer Science — Kennesaw, GA, USA
- **Vasireddy Venkatadri Institute of Technology** — *Aug 2019 - May 2023*
  Bachelor of Technology, Information Technology — Guntur, India

PROJECTS

- **CI/CD Pipeline for Streamlit Fake News Detection Application** *[]*
  GitHub Actions, Docker, AWS ECS Fargate, Amazon ECR, CloudFormation
  - Designed and implemented a fully automated CI/CD pipeline using GitHub Actions to build, push, and deploy a containerized Streamlit application to AWS ECS Fargate.
  - Utilized Docker to containerize the application and host it in a secure, scalable infrastructure on AWS.
  - Stored model artifacts (Pickle and NLTK data) in the Docker image to ensure reproducible builds.
  - Integrated with Amazon ECR and ECS using IAM roles; configured task definitions, environment variables, and secure secrets management.
  - Verified successful deployment via public IP, designed for future scalability with ALB and monitoring integrations.
- **AWS Site-to-Site VPN Simulation** *[]*
  AWS VPC, pfSense, VPN, Routing
  - Simulated an on-premises environment using pfSense on AWS and established a Site-to-Site VPN.
  - Configured static routes, route propagation, and firewall rules for secure bidirectional communication.
- **Zero-Knowledge Proof Systems in Decentralized Networks** *[]*
  zk-SNARKs, Ethereum, Solidity, Circom, SnarkJS
  - Implemented zk-SNARKs-based proof systems to ensure privacy-preserving transactions in decentralized networks.
  - Designed smart contracts using Solidity and Circom circuits to demonstrate zero-knowledge proofs in practical scenarios.
- **Intelligent Navigation and Obstacle Avoidance for Autonomous Systems** *[]*
  ROS, Python, OpenCV, Lidar
  - Developed algorithms for real-time obstacle detection and path planning in autonomous robotic systems.
  - Integrated ROS with sensor data (Lidar, camera) to execute dynamic obstacle avoidance.

SKILLS

- **Programming Languages:** C, Python, JavaScript, Java, OOPS
- **Database Systems:** MySQL, MongoDB, PostgreSQL
- **Cloud Technologies:** AWS (ECS, Fargate, ECR, CloudFormation, EC2, RDS, EFS, Lambda, SES, SNS, S3)
- **DevOps & Version Control:** Docker, Kubernetes, CI/CD, Git/GitHub, Linux
- **Other Tools & Technologies:** Redis, pfSense, OpenCV, Q-learning, PID control, Deep RL
- **Soft Skills:** Agile, Analytical, Collaboration, Problem Solving, Critical Thinking, Organization, Communication

CERTIFICATIONS

- **AWS Cloud Practitioner Certification** *(Amazon Web Services)* — *2023*
- **AWS Cloud Solutions Architect Certification** *(Amazon Web Services)* — *2024*
- **Java Full Stack Certification** *(Wipro)* — *2023*