

Jayawanth Rayakota Harnath

+19803820316 — jayawanthrh01@gmail.com — linkedin.com/in/jayawanth — github.com/JayawanthRh

Education

University of North Carolina

Masters of Science in Computer Science - Data Science

May 2025

Certifications

- AWS Certified AI Practitioner — AWS Certified Associate Solutions Architect

Experience

Open Source Developer - Hackathons

Jan 2024 – Present

- Optimized Rocket.Chat queries, reducing execution time by 40% and API latency by 30%.
- Streamlined FitCheck App API integrations, cutting latency by 25% and boosting engagement by 15%.
- Enhanced TensorFlow Addons with a custom loss function, improving accuracy by 12% and fixing 5+ compatibility issues.

DevOps Engineer - Kyndryl

Nov 2022 – Dec 2023

Infrastructure Automation and Management

- Automated AWS resource provisioning with Terraform and CloudFormation reduced deployment time by 40%.
- Developed CI/CD pipelines with Jenkins and GitLab CI, increasing deployment frequency by 30%.
- Led application migrations to AWS with DMS, SMS, and MGN, ensuring minimal downtime and data integrity.
- Architected scalable AWS systems, improving uptime by 25%.
- Leveraged AWS services (EC2, S3, RDS, Lambda, VPC), enhancing performance by 20%.
- Implemented serverless architectures, reducing costs by 35%.

Containerization and Orchestration

- Containerized applications with Docker, reducing environmental discrepancies by 50%.
- Managed Kubernetes clusters on AWS EKS, increasing reliability by 30%.
- Automated deployment with Helm charts, improving scalability by 40%.

Configuration Management and Monitoring

- Utilized Ansible, decreasing manual tasks by 60%.
- Calculated AWS costs, configured EC2 instances, and reduced operating expenses by 30%.
- Implemented monitoring with AWS CloudWatch, Prometheus, and Grafana, improving issue detection by 45%.
- Developed dashboards and alerts, reducing response time by 25%.

Associate Infrastructure Specialist - IBM

Feb 2021 – Feb 2023

- Troubleshooting and solving technical issues for clients and internal users ensures high customer satisfaction.
- Created and maintained technical documentation, support guides, and troubleshooting records.
- Monitored system performance, performed maintenance, and implemented security measures.
- Identified and reported bugs, provided feedback on product performance, and analyzed issue trends.
- Ensured compliance with industry standards, company policies, and security best practices.

Skills

Programming Data Structures and Algorithms (DSA), Java, Python

Cloud & (IaC) AWS, Azure, Terraform, CloudFormation, Pulumi, Cloud Security”, ”Monitoring, Logging

Big Data/Cloud Hadoop, PySpark, Hive, Sqoop, AWS, GCP, MySQL

Developer Tools Docker, Git, Google Colab, Anaconda, CUDA

Projects & Research

Serverless AI-Powered Resume Analyzer

- **Tech Stack:** AWS Lambda, API Gateway, Textract, Comprehend, DynamoDB, S3
- Developed and tested cybersecurity protocols using TCP/IP, VPN, and DNS, ensuring network security and data protection in alignment with Santee Cooper’s focus on cybersecurity.

CI/CD Pipeline for a Web App

- **Tech Stack:** AWS CodePipeline, CodeBuild, CodeDeploy, S3, EC2, IAM
- Built an automated CI/CD pipeline using AWS CodePipeline to deploy a React-based web app to an S3 bucket. Integrated CodeBuild for testing and CodeDeploy for seamless deployments to EC2.