Rokkam Ganesh

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Linkedin | Github | Portfolio

SUMMARY

B.Tech student in Computer Science (AI & ML), actively seeking a job opportunity. Experienced in Python and MySQL. Gained hands-on experience of AWS and RHEL system administration. Built projects such as a containerized application, text-to-speech conversion, and image search using AWS & RHEL, integrated with ML and web technologies.

EDUCATION

Godavari Institute of Engineering and Technology Rajahmundry, AP

Bachelor of Technology in Computer Science (AI & ML), CGPA: 8.7/10 *Expected 2026*

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Databases, Computer Networks and Machine Learning

TECHNICAL SKILLS

Languages: Python, Java
Clout & Platforms: AWS (Cloud Practitioner), Red Hat (RH124, RH134)
AWS Services: EC2, LightSail, Lambda, S3, EFS, VPC, Route 53, CloudFront, ELB, RDS, DynamoDB, IAM
Databases: MySQL, MongoDB
Dev & Tech Tools: Git, GitHub, VS Code, IntelliJ, Postman, Docker, Podman, AWS Console, AWS CLI

EXPERIENCE

AWS and Red Hat Trainee May 2024 – June 2025

Techwing

- Built 5+ integrated AWS workflows, combining services like EC2, S3, IAM in RHEL setups
- Managed 15+ AWS services via Console/CLI, to work with real-world cloud architectures
- Administered RHEL systems for 20+ users, implementing shell scripts and configuring SELinux policies

PROJECTS

VisionCast – Smart Image & Audio Output | *Python, Lambda, S3, Rekognition, Polly, DynamoDB* Github

- Developed a React frontend managing 50+ text/audio files and 100+ images, integrated with 5+ AWS Services
- Converted 50+ text files to audio via Polly via Lambda using python scripts, enabling batch ZIP downloads
- Tagged and indexed 100+ images via Rekognition for rapid search, seamless preview, and quick deletions

FreeIPA & S3Backup – Secure Identity & S3 Backup | *EC2, Route 53, S3, RHEL, Podman, FreeIPA* Github

- Delivered 99.9% uptime by deploying a Podman-based web server on RHEL EC2 with S3 backups for webpage
- Integrated FreeIPA on EC2 with Route 53, maintaining 99.8% DNS accuracy and 15+ digital identities
- Enabled role-based access for 13 users & 3 admins via FreeIPA's streamlining secure centralized management

Fruit Ripeness Profiling | *Python, PyTorch, Scikit-Learn*

- Built a Vision Transformer model for apple, orange and banana ripeness using 2K+ images per class for training
- Designed a custom training pipeline with precision-tuned optimization strategies, reducing model training time
- Achieved 97% validation accuracy through Early Stopping across 50 epochs with image-level augmentation

CERTIFICATIONS

Programming, Data Structures and Algorithms using Python - Silver (79%)
Cloud Computing – Gold Topper (91%) (NPTEL)
AWS Academy Cloud Operations (AWS Academy)
Data Structures and Algorithms in Java – Silver (81%) (NPTEL)
Red Hat Academy: System Administration I (RH124), II (RH134)