

# SANTHOSH RAJ V

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## OBJECTIVE

Enthusiastic AWS Cloud & DevOps Engineer with hands-on experience in cloud deployment, automation, and CI/CD tools. Skilled in building and managing scalable AWS infrastructures using modern DevOps practices. AWS Certified Cloud Practitioner, eager to contribute to innovative and cloud-driven environments.

## EDUCATION

Bachelor of Computer Applications(**BCA**)

JULY 2022- APRIL 2025

DRBCCC Hindu College, Pattabiram, Chennai.

## TECHNICAL SKILLS

**Cloud & DevOps: AWS** (EC2, S3, IAM, VPC, RDS, ALB, Route 53 ), Docker, Terraform, Jenkins

**Version Control & Tools:** Git, GitHub, VS Code, CLI, SSH, PuTTY, WinSCP

**Networking:** LAN/WAN setup, IP configuration, Network troubleshooting

**Programming & Web:** Python, HTML, CSS

**Database:** MySQL

**Operating Systems:** Linux (Ubuntu, Amazon Linux), Windows

## PROJECTS

### Scalable Exam Result Web Application – AWS (3-Tier Architecture)

- Designed and deployed a secure 3-tier web application using Flask backend, NGINX as web tier, and RDS MySQL as the database layer.
- Configured a custom VPC with public/private subnets, NAT Gateway, and Security Groups for secure communication.
- Implemented ALB with HTTPS via ACM and integrated Route 53 for DNS management, ensuring reliable domain routing and high availability.
- Optimized network routing and storage configuration, improving application performance and reducing latency.

**Github:** <https://github.com/vsanthoshraj/3-tier-exam-result-website>

### Automated News Website Deployment – Jenkins CI/CD Pipeline

- Built and containerized a scalable Node.js news website, integrating GitHub for source control and automating CI/CD pipelines with Jenkins, SonarQube, and Docker.
- Provisioned and managed secure AWS cloud infrastructure using Terraform, including EC2 instances and network configuration for seamless deployments.
- Implemented secure environment variables and API key management to protect sensitive information across the deployment pipeline.
- Configured GitHub webhooks to trigger Jenkins pipelines on source code changes, enabling automatic updates of the live website without manual intervention.
- Enhanced pipeline reliability by adding email notifications for build failures, improving incident response time and cutting manual deployments by more than 70%.

**Github:** [https://github.com/vsanthoshraj/jenkins-CI\\_CD-News-Website-Deployment.git](https://github.com/vsanthoshraj/jenkins-CI_CD-News-Website-Deployment.git)

## CERTIFICATION COURSES

- AWS Certified Cloud Practitioner ( CLF-C02 )**
- AWS re/Start Program – TNSDC & Cultus Education**
- Linux in Udemy**
- Python in GUVI HCL**
- Computer Hardware and Networking