

Bharath Kumar Kalakuntla

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Education

Guru Nanak Institutions Technical Campus

B Tech in Computer Science and Engineering - GPA: 7.42

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Hyderabad

- **Relevant Coursework:** Data Structures and Algorithms, Operating System, Computer Networks.

Projects

Orchestrated Pipeline for E-Commerce Web Application

AWS (EC2, RDS, S3), Jenkins, Git

- Designed and implemented a robust CI/CD pipeline to streamline the development lifecycle for an e-commerce platform hosted on AWS.
- Utilized Terraform for infrastructure provisioning including EC2, RDS, and S3 ensuring scalable and secure architecture.
- Integrated Jenkins with Maven for build automation, SonarQube for continuous code quality checks, and OWASP Dependency-Check to identify security vulnerabilities.
- Containerized the application using Docker and managed multi-container deployments with Docker Compose.
- Implemented Git for version control to maintain efficient code collaboration across teams.

Application Deployment on AWS

AWS (EC2, S3, VPC, IAM, RDC)

- Architected and deployed a highly available, fault-tolerant web application on AWS using best DevOps practices.
- Leveraged EC2 for compute, RDS for relational database service, S3 for static asset hosting, and ELB for load balancing.
- Configured Auto Scaling Groups to manage dynamic traffic loads and maintain application availability.
- Enforced strict security controls with IAM roles, Security Groups, and VPC configurations.
- Enabled operational monitoring through AWS CloudWatch, set up audit trails with CloudTrail, and implemented automated database backups via RDS snapshots.
- Designed S3 lifecycle policies to optimize cost-effective storage management.

Technical skills

Languages: Python, Java, C, HTML, CSS, JavaScript, SQL

Cloud: AWS

DevOps Tools: Git, Jenkins, Docker.

Databases: MySQL

Certifications

- AWS Certified Solutions Architect – Associate
- HackerRank SQL Certificate