

# TUNUGURU SANTHOSH

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## SUMMARY

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Cloud Engineer with hands-on experience in designing, deploying, and automating AWS infrastructure using services like EC2, S3, RDS, Lambda, ECS, and VPC. Skilled in Infrastructure as Code (Terraform, CloudFormation, Ansible), containerization (Docker, Kubernetes), and CI/CD automation (Jenkins, GitHub Actions, Code Pipeline). Proficient in Python and Bash scripting with expertise in cloud security, monitoring, and cost optimization using CloudWatch, Prometheus, and Grafana. Adept at delivering scalable, secure, and high-availability cloud solutions in Agile environments.

## EXPERIENCE

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### Cloud Engineer Intern | *Sushiv Technology* | Dec 2024 – Jun 2025

- Designed and deployed a web application using EC2, S3, RDS, and ELB, ensuring scalability and high availability.
- Implemented CI/CD pipelines with AWS Code Pipeline & Code Build, reducing deployment effort by 60%.
- Integrated IAM & Amazon Cognito for RBAC authentication, enhancing application security.
- Developed a React.js front-end with AWS backend services for seamless user experience.
- Configured CloudWatch & CloudTrail monitoring with IAM policies for compliance and security auditing.

### Cloud Intern | *Techplement* | Sep 2024 – Sep 2024

- Deployed and configured cloud infrastructure on AWS for reliable and secure application hosting.
- Built a secure WordPress website on AWS EC2 with RDS backend and optimized security groups.
- Managed system monitoring and troubleshooting using CloudWatch metrics and proactive alerts.
- Collaborated with teams to ensure cloud security and compliance standards.

## PROJECTS

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### Serverless Web Application | AWS Lambda, API Gateway, DynamoDB, S3, CloudFront

- Built a serverless student data management system with CRUD operations.
- Deployed static frontend on Amazon S3 and distributed globally via CloudFront.
- Created REST APIs with API Gateway and integrated with Python Lambda functions.
- Used DynamoDB for scalable data storage with input validation and pagination.
- Achieved a highly available, scalable, and cost-effective solution with zero server maintenance.

### End-to-End CI/CD Pipeline for Containerized Python Web App on AWS ECS Fargate:

- Designed and containerized a Flask-based Python web application using Docker, making it portable,

lightweight, and production-ready.

- Built a private Amazon ECR repository to securely store versioned container images, ensuring consistent deployments across environments.
- Deployed the application on Amazon ECS Fargate, leveraging serverless container orchestration to achieve scalability without managing EC2 instances.
- Implemented a fully automated CI/CD pipeline with Code Pipeline and Code Build, integrated with GitHub to build, push Docker images to ECR, and redeploy ECS services on every commit.
- Configured CloudWatch monitoring with SNS alerts for proactive issue detection, enabling automated notifications on resource utilization and failures, resulting in a reliable zero-downtime release process.

## TECHNICAL SKILLS

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### Cloud & Backend Technologies

- AWS: EC2, S3, RDS, Lambda, ECS, EKS, API Gateway, DynamoDB, VPC, CloudFront, IAM
- Serverless & Microservices Architectures

### Programming & Scripting

- Python, Bash
- REST API Development

### Data & Storage

- RDS (MySQL/PostgreSQL), DynamoDB
- Data ingestion, validation, pagination, API-based data processing

### DevOps & Automation

- Terraform, CloudFormation, Ansible
- Docker, Kubernetes
- CI/CD: AWS CodePipeline, Code Build, Jenkins, GitHub Actions

### Monitoring & Security

- CloudWatch, CloudTrail, Prometheus, Grafana, ELK
- IAM, RBAC, Cognito, Secure Networking

### Version Control & OS

- Git, GitHub
- Linux (Ubuntu, RHEL), Windows Server

## LICENSES & CERTIFICATIONS

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- AWS DevOps (Amazon Web Services) Issued by Digital Lync, Hyderabad
- Fundamentals of Red Hat Enterprise Linux (RHEL) – Coursera (RedHat)
- Python Programming – University of Michigan (Coursera)

## EDUCATION

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MTech – Information Technology  
Chaitanya Bharathi Institute of Technology, Hyderabad | CGPA: 7.0

B. Tech – Computer Science & Engineering Vaagdevi  
College of Engineering, Warangal | 68%

Class XII – Samatha Vocational Jr College, Thorrur | 86%

## ADDITIONAL INFORMATION

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**Languages:** English (Fluent), Hindi (Advance), Telugu (Native)

**Willing to Relocate:** Yes