

# Govardhan P

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## Summary

AWS Cloud/DevOps Engineer (self-paced learning & project experience) with practical exposure to designing and deploying secure, scalable cloud environments using AWS services (VPC, EC2, IAM, S3, RDS, CloudFormation, Terraform). Skilled in automating infrastructure provisioning, managing cloud operations, and supporting application deployments through hands-on labs and self-initiated projects. Backed by 2+ years of .NET Core development, I bring strong problem-solving, scripting, and system integration skills to streamline cloud adoption and infrastructure reliability.

## Technical Skills

- Cloud Platforms: AWS (VPC, EC2, IAM, S3, RDS, ALB, CloudFormation), Azure (Web Apps, Pipelines)
- Infrastructure as Code: Terraform, AWS CLI, CloudFormation
- Networking & Security: VPC, Subnets, NAT Gateway, Security Groups, IAM Policies
- Monitoring & Logging: CloudWatch, Grafana (basic)
- Automation & Scripting: Python (OOP), Bash, Shell
- Containers & OS: Docker (basics), Linux (Ubuntu proficiency)
- Version Control: Git, GitHub, Bitbucket
- Dev Background: .NET Core, C#, MySQL, SQL Server, Angular
- CI/CD Tools: Jenkins, GitHub Actions, Azure Pipelines

## Experience

### Software Engineer | NJS Infotech | Chennai | Jun 2023 – Present

- Automated deployments using Azure DevOps pipelines for .NET Core applications, improving release consistency.
- Configured and deployed workloads to Azure Web Apps, supporting cloud-based deployment.
- Built REST APIs using .NET Core/Entity Framework with MySQL, streamlining backend operations.
- Integrated Swagger and Postman to enhance API testing and client handoff.
- Automated workflows (emails, print services) with Azure Web Jobs, reducing manual production effort by 50%.
- Developed dashboards with jQuery DataTables for real-time production insights.

## Design Lead | AIROSSPACE R&D | Chennai | Nov 2023 – Jan 2024

- Led social media strategy and content creation to enhance brand visibility and engagement.
- Participated in field demonstrations showcasing drone capabilities to clients.

## Projects

### Secure VPC Setup with EC2 Instances

- Designed and configured a custom VPC with public and private subnets, route tables, and subnet associations.
- Implemented network security using NACLs and Security Groups to tightly control inbound/outbound traffic.
- Provisioned EC2 instances in both public and private subnets with IAM roles for secure resource access.
- Set up Internet Gateway for public subnet and NAT Gateway for private subnet to manage internet connectivity.
- Configured SSH key pairs for secure login and enforced access control via IAM policies and roles.
- Tested connectivity between subnets, validated security group rules, and ensured compliance with access controls.

### Hosting a Web Application on Amazon EC2 with Secure Internet Access

- Created and set up an EC2 instance in AWS to run a web application
- Configured security settings to allow safe access from the internet and successfully tested the application from outside AWS.

### Azure CI/CD Deployment for .NET Core Application (Company Project)

- Built YAML-based Azure DevOps pipelines for automated build, test, and deployment of ASP.NET Core API.
- Integrated Xunit testing for automated validation.
- Deployed workloads to Azure Web Apps for scalability.

## Education

### Chennai Institute of Technology | Bachelor's in Information Technology | Chennai | Jun 2019 - Mar 2023

- GPA: 8.1/10.0
- Coursework: Operating Systems, Computer Networks, Cloud Computing, Database Management Systems, Software Engineering, Web Technologies, Data Structures and Algorithms, Linux Fundamentals

## Key Achievements

- Designed and provisioned secure AWS VPC architecture with public/private subnets and load balancing.
- Automated infrastructure provisioning using AWS CLI, improving setup speed and reliability.
- Migrated workloads to AWS EC2 and RDS (self-learning project), optimizing cost and performance.
- Built Azure pipelines for .NET apps, enabling continuous integration and testing.
- Reduced manual production effort by 50% through workflow and print automation.