

# PRATHIK MARNENI



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## PROFESSIONAL SUMMARY

**Cloud DevOps Engineer** with 5+ years of IT Experience of **DevOps Engineering, Build/Release Engineer**. Implemented effective IT strategies and hands-on experience supporting, automating, and optimizing critical deployments in **Microsoft Azure, Amazon Web Services, leveraging configuration management, CI/CD**. Experience in configuring **Azure web apps, Azure App services, Azure Application insights, Azure Application gateway, Azure DNS, Azure Traffic manager, Aws IAM, Auto Scaling, Elastic Load Balancing, Amazon S3, Route 53**.

- Created and managed Docker deployment pipeline for custom application images in the cloud using **Jenkins**.
- Experience pulling Docker images from Docker hub and uploading it to **AWS ECR**, Automated **S3** interactions for storing artifacts and configuration files using **AWS CLI** and **Boto3**, enabling seamless integration with **CI/CD** workflows.
- Implemented **AWS Identity and Access Management (IAM)** Groups and Users to enhance login authentication. Defined customized policies for groups, assigning distinct permissions based on specific requirements, and providing **Amazon Resource Names (ARNs)**.
- Created **Python Scripts** to Automate **Azure** services, include web servers, Cloud front Distribution, database, virtual machines and database **security groups**, data lakes and application configuration, this Script creates stacks, single servers or joins web servers to stacks.
- Used **Jenkins** and implemented **CI/CD pipeline** using plugins like conditional build step, deploy to Git.
- Written **Ansible Playbooks**, and roles, automating infrastructure in **AWS, Webserver, SQL Server** etc. Mitigated **AWS** costs by writing the Ansible playbook for auto start/stop of **AWS resources** at a time of the day by triggering it from **Jenkins**.
- Experience in Microsoft **Azure** services such as (PaaS & IaaS & SaaS), Storage, Web Apps, Active Directory, Logic Apps, Data Factory, Service Bus, Cloud services, ExpressRoute, Load Balancing.
- Services and Config Maps created for reproducible builds of the **Kubernetes** applications, managed **Kubernetes manifest** files and Helm packages and implemented Kubernetes to deploy scale, load balance, scale and manage **Docker containers** with multiple namespace versions.
- Implemented secrets and credentials management using **AWS Secrets Manager** and **Azure Key Vault**, ensuring secure access across environments.
- Designed and documented **RESTful APIs** using **OpenAPI** specifications, improving communication and collaboration between development teams.

## EDUCATION

### Master's Degree - Computer Science

Auburn University

### Bachelor's Degree - Electrical Electronics and Communications Engineering

Gitam University.

## SKILLS

- **Cloud** - Amazon Web Services, Microsoft Azure
- **Orchestration Tools** – Docker, Kubernetes
- **Version Control Tools** – GITHUB, GIT
- **Monitoring and Build Tools** - Splunk, ELK, Maven
- **Continuous Integration** – Jenkins, Bamboo
- **Operating Systems** - Red Hat, Ubuntu, Windows, Mac Os.
- **Languages and Database** - .NET, Python, PowerShell, JSON, YAML, MySQL, Mongo DB

## WORK EXPERIENCE

### Global Payments.

Associate DevOps Engineer

Atlanta, USA

Jan 2022 – present

- Configured AWS application deployments infrastructure services like **VPC, EC2, S3, RDS, Dynamo DB, Mongo DB, IAM, EBS, Route53, SNS, SES, SQS, CloudWatch, CloudTrail, Security Group, Auto Scaling Group ASG, and RDS** using **CloudFormation** templates.
- Created and managed Docker deployment pipeline for custom application images in the cloud using **Jenkins**.
- Integrated security compliance checks into **CI/CD** pipelines using tools like **AWS Config** and custom scripts, helping meet audit and governance standards.

- Written **Ansible Playbooks**, and roles, automating infrastructure in **AWS, Webserver, SQL Server** etc. Mitigated **AWS** costs by writing the Ansible playbook for auto start/stop of **AWS resources** at a time of the day by triggering it from **Jenkins**.
- Deployed and configured **Elasticsearch, Logstash and Kibana (ELK)** for log analytics, full-text search, application monitoring in integration with **AWS Lambda** and **CloudWatch**.
- Using **Dockerfiles** containerized **ML** models and deployed them on **Kubernetes** clusters with **GPU** support for high-performance inference.
- Deployed, scaled, and load-balanced containerized applications using **Kubernetes**, managing multiple namespace versions across production environments.
- Integrated **Terraform** into current software release process to help provision **AWS** resources and deployments of **artifacts and services**.
- Established a robust continuous delivery pipeline using **Docker, Jenkins**, and **GitHub**. Automated the creation of **Docker** containers upon the creation of new branches in **GitHub**, enhancing the efficiency and agility of the development workflow.
- Automated **Datadog** Dashboards with the stack through Terraform Scripts. Configured **CloudWatch** and **Datadog** to monitor real-time granular metrics of all the **AWS** Services and configured individual dashboards for each resource Agents.
- Provisioned and optimized **GPU-based** compute environments for **AI/ML** workloads using **EC2** instances and **EKS**, supporting scalable model training and inference pipelines.
- Supported legacy **CI** workflows using **Serena** Dimensions tooling, providing integration solutions for **Salesforce.com** data platform teams.
- Implementing a Continuous Delivery framework using **Jenkins, ANT, Maven & Nexus** in Linux environment
- Worked on Docker with **Kubernetes** to create pods for applications and implemented **Kubernetes** to deploy a web application across a **Multi-node Kubernetes cluster**.
- Worked on setting up a two-step **load balancer** setup by configuring Load balancer such as **NGINX** for frontend to **Kubernetes** Cluster and to configure “back End” for **Kubernetes service** to proxy traffic to individual pods.
- Experience in Configuration management tools such as **Chef**. Wrote **Chef recipes** and **cookbooks** in **Ruby** scripting.

## TEKWORKS DIGITAL PVT LTD

DevOps Engineer

Hyderabad, India  
July 2019 – July 2021

- Administrating of **IAAS & PAAS** Virtual Machines and Web/Worker roles on **Microsoft Azure Classic, Resource Manager** and **Troubleshooting issues** on **Azure VMs**. Supported technologies, such as **Active Directory Federation Services, Azure Active Directory**, and **PowerShell**.
- Designed and Configured **Azure App - Cloud Services, PaaS, Azure Data Factory, Azure's QL Data Warehouse, Azure Blob Storage, Web API, VM creation, ARM Templates, PowerShell scripts, IAAS, storage, network and database**.
- Designed and implemented **Terraform** modules for automating the deployment of **Azure Virtual Machines, Storage Accounts, and Networking** components, optimizing resource management.
- Configured **Active Directory Federation Services (ADFS)** authentication flow, **Azure VPN** for Virtual Network. Integrated **Office 365** with **Azure Active directory** to synchronize with **SAAS** applications. Also, deployed **Azure IaaS** virtual machines and Cloud services (**PaaS** role instances) into secure Virtual Networks and subnets.
- Utilized **Azure Database Migration Service (DMS)** tool to automate database migration from on premise to **Azure**. And **azure PRIVATE END POINT** network interface to establish secure private Service. Experience in **Azure**
- **Platform** Development, Deployment Concepts, hosted Cloud Services, platform service and close interface with **Windows Azure Multi-factor Authentications** and Continuing architectural changes to move software system offerings to a distributed, service-based architecture.
- Created **Azure SQL** database, performed **monitoring** and **restoring** of **Azure SQL** database. Performed migration of **On-premises Microsoft SQL** server to **Azure SQL** database.
- Deployed and optimized **Java** web applications to **Azure DevOps** to focus on development by using services such as **Repos** to commit codes, **Test Plans** to trigger application and unit test, deployed artifacts to **App Service**, **Azure Application Insight** collects health performance and usage data of the process.
- Created terraform reusable modules to automate resources and worked with **Terraform** Templates to automate the **Azure IaaS virtual machines** using **Terraform** modules and deployed virtual machine scale sets in various environments.
- Deployed microservice applications on **Azure Kubernetes** by using **Azure Kubernetes service (AKS), Kubernetes Cluster**, Virtual Network to deploy agent nodes, **Ingress API Gateway, MySQL Databases** and **Cosmo DB** for stateless storage of external data, and setup reverse proxy **Nginx, HAProxy** or **Traefik** in the cluster.
- Used **Azure Monitoring** to provide a robust alerting and monitoring solution and maximized the supply and performance of your applications.