

## SWETHA REDDY PABBATHI REDDY

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### TECHNICAL SKILLS

Cloud Technologies	AWS, Azure
CI/CD Tools	Jenkins
Version Control Tools	Git, GitHub
Monitoring Tool	Log Analytics, Cloud Watch, AWS Cloud Trail
Operating Systems	Windows, CentOS, Ubuntu
Networking	DNS, DHCP, SMTP, HTTP, TCP/IP, Telnet
Scripting Languages	Python, Shell, JavaScript
Virtualization Tools	Hyper V
Ticketing Tools	ServiceNow, JIRA
Containerization and Orchestration Tools	Docker, Kubernetes
Machine Learning	NumPy, Pandas, scikit-learn, matplotlib
Web Technologies	HTML, CSS, Bootstrap, PHP, NodeJS, React

### PROFESSIONAL EXPERIENCE

**Client: University of Texas at Arlington**

**Role: Student Assistant**

**Mar 2023 – Aug 2023**

- Developed cloud formation templates to build immutable infrastructure on AWS.
- Designed highly available, cost effective and faulty tolerant systems using EC2 instances, Auto Scaling and Elastic Load Balancing.
- Managed and monitored mission-critical systems for optimal performance and high level of availability.
- Enabled versioning and configured S3 life cycle policies to backup.
- Proficient in monitoring and optimizing CloudFront performance metrics to enhance end-user experience and reduce latency.
- Experience in designing VPC subnets, route tables, and internet gateways to establish connectivity between AWS cloud resources.

**Client: Accenture Solutions Pvt Ltd**

**Role: Cloud Support Associate**

**Aug 2019 – Aug 2022**

- Spearheaded collaborative efforts with cross-functional teams to optimize software development processes and streamline cloud infrastructure management, fostering efficiency and cohesion within the organization.
- Proficiently utilized **CloudWatch** and **AWS CloudTrail** for comprehensive monitoring and logging of cloud infrastructure, ensuring real-time visibility into system performance, security, and operational health.
- Leveraged **JIRA** and **ServiceNow** for effective incident management, change control, and service request tracking in cloud environments, promoting collaboration and streamlined workflows.
- Demonstrated proficiency in networking protocols such as **DNS, DHCP, SMTP, HTTP, TCP/IP**, and **Telnet**, ensuring seamless connectivity and data transfer within cloud-based systems.
- Implemented and maintained **DNS** configurations, **DHCP services**, and **SMTP** protocols to facilitate reliable communication and resource allocation in cloud networks.
- Implemented three tier architecture that is highly available and scalable using terraform and deployed in EC2 instance using User data Script and AWS services like **VPC, ASG, Route53, CDN, ELB, EC2, S3, NAT**.
- Conducted thorough **TCP/IP** troubleshooting for enhanced cloud network performance. Utilized Telnet Server for efficient remote system access and issue resolution. Deployed and optimized robust **continuous integration (CI)** and **continuous deployment (CD)** pipelines on cloud platforms, harnessing automation to expedite software delivery and bolster productivity.
- Regular review and monitor each of **IAM policies** to improve the security of AWS account.
- Skilled in AWS Services including **Identity and Access Management (IAM) Policies, Lambda, S3, Glacier, CloudFront, Route53, EC2, ELB, EBS, Auto scaling group, VPC (subnet, IGW, Security Groups, Routing table, NAT, VPC Peering and VPN), RDS, DynamoDB, CloudWatch**.
- Proficiently managed infrastructure as code using **Terraform** and **Ansible**, ensuring seamless scalability, reliability, and cost-effectiveness.
- Configured and monitored **Kubernetes** clusters for efficient container orchestration and deployment of **microservices**, contributing to enhanced scalability and performance.

- Leveraged **Docker** for **containerization**, facilitating the creation of reproducible environments for both development and production purposes.
- Played a key role in designing and implementing secure network architectures, including **VPCs**, **subnets**, and **security groups**, ensuring robust security measures were in place.
- Conducted regular maintenance and troubleshooting of systems to ensure optimal availability and performance, minimizing downtime and disruptions.
- Configured AWS **Route53** to ensure **DNS** resolution for AWS resources by **configuring domain name** settings such as **AWS Domain names**, **AWS traffic flow** and **AWS hosted Zones** to respond for DNS queries.
- Orchestrated **VPC** peering connections to establish secure communication channels between virtual private clouds, enhancing interconnectivity and data exchange within the cloud infrastructure.
- Spearheaded the seamless **migration** of **on-premises** systems and applications to the cloud, employing best practices to mitigate risks and ensure minimal disruption to operations.
- Designed Stacks using Amazon **CloudFormation** templates to launch AWS Infrastructure and resources.
- Demonstrated ability to collaborate with other teams to achieve complex objectives.
- Implemented version control using **Git**, facilitating efficient collaboration and code management across distributed teams.
- Implemented rigorous security compliance measures, adhering to industry standards by performing **VARA** to safeguard sensitive data and ensure regulatory compliance.
- Efficiently managed **storage** solutions, **optimizing resource** utilization and data accessibility through **backup**, archival, and retrieval processes, with expertise in **disaster recovery** solutions.
- Implemented **Identity and Access Management (IAM)** policies and roles on AWS, defining granular permissions to control access to resources and enhance security posture.
- Regularly audited and enforced **IAM** policies to ensure adherence to the principle of least privilege, minimizing the risk of unauthorized access and data breaches.
- Engaged in ongoing professional development, staying abreast of the latest technologies and best practices in DevOps and cloud computing to maintain a cutting-edge skill set.

## ACADEMIC PROJECTS

### E-commerce Platform

Sep 2023 – Nov 2023

*Tech Stack: MongoDB, Express, React, Node.js*

- Spearheading the development of an e-commerce platform using the MERN stack and successfully achieving substantial progress, with approximately 90% of the core features and functionalities accomplished, demonstrating leadership in the project.
- Optimized UI, item management, and order tracking systems with a focus on seamless shopping experiences and rigorous testing methodologies.
- Successfully deployed the project on the cloud platform cyclic.sh, leveraging its capabilities for scalability, reliability, and efficient management of resources.

### End to End CI/CD Implementation using Jenkins

Sep 2023 – Nov 2023

*Tech Stack: Jenkins, Kubernetes, Docker*

- Established an end-to-end CI/CD pipeline for Java-based applications, triggering Jenkins pipelines through webhooks.
- Executed processes including building, static code analysis, creation of Docker images, and deployment on Kubernetes.

### Cloud Cost Optimization Using CloudWatch and Lambda

May 2023 – Jul 2023

*Tech Stack: Python, Lambda, CloudWatch, Boto3*

- Developed a Lambda function in Python using the Boto3 module for AWS API interaction.
- Utilized CloudWatch events to trigger the Lambda function.
- Implemented functionality within the Lambda function to manage EBS snapshots, including deletion and notification to the designated user group based on specified criteria.

### Distributed Systems Integration

Feb 2023 – Apr 2023

*Tech Stack: Python*

- Spearheaded the integration of XML-RPC communication for seamless file operations and computational tasks.
- Engineered a resilient file synchronization system, harmonizing client and server functionalities for efficient data management.
- Implemented asynchronous RPC calls, optimizing system performance, and enabling concurrent processing of computation requests.

## ACHIEVEMENTS

- Received Pinnacle Award in Maestro category which is awarded to Individuals who have achieved positive outcomes from client/company through Automation /Innovation/Specialization/Delivery Process

## EDUCATION

University Of Texas at Arlington

MS in Computer Science

Aug 2022 – May 2024