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: Accenture Solutions Pvt Ltd

Role: Cloud Support Associate   **Nov 2020 – July 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.
- 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.
- 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.
- Implemented version control using **Git**, facilitating efficient collaboration and code management across distributed teams.
- 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.
- 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.

- 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.
- Prioritizing the optimization of the user interface to ensure a seamless and user-friendly shopping experience, alongside streamlining item management for enhanced efficiency, and improving the order tracking system for real-time order status updates, with a focus on rigorous testing throughout the development process, including performance testing.
- Employed Git for version control and actively participated in regular code reviews to ensure code quality and maintain consistency.
- Successfully deployed the project on the cloud platform cyclic.sh, leveraging its capabilities for scalability, reliability, and efficient management of resources.

Comprehensive Academic Program Management Website   Sep 2023 – Nov 2023
Tech Stack: HTML, CSS, React, PHP, Node.js
- Actively collaborated within a team for the development of an academic program management website, achieving significant progress with approximately 95% of the project completed.
- Played a key role in ensuring a responsive design to deliver an optimal user experience, with a focus on accessibility standards.
- Expertly implemented tailored user features catering to various stakeholders including students, instructors, administrators, program coordinators, and quality assurance officers, contributing to the development of a comprehensive and user-centric academic program management solution.
- Successfully deployed the project on the UTA (University of Texas at Arlington) cloud infrastructure, leveraging its capabilities for scalability, security, and efficient resource management.

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.

Canteen Automation System   Jan 2022 – Mar 2022
Tech Stack: Java, MySQL, NetBeans
- Designed and executed a canteen automation solution, using Java for the front-end and a MYSQL database for the backend.
- Achieved a significant and substantial 20% reduction in errors through automation, enhancing accuracy and reliability.
- Collaborated with canteen staff to gather user feedback, resulting in a 10% reduction in service response times and increased user satisfaction.

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**   **August 2022 – May2024**