Santosh Kumar Murrarisetti

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**Technical Skills:**

**Operating System** - Windows, Ubuntu, Centos

**Scripting** - Shell scripting, Python, Power Shell

**DevOps Tools** - Jenkins, GitHub Actions, Azure Pipelines, Azure Repos, Docker, Terraform, Ansible, Datadog, Splunk, Prometheus, Grafana, Nagios

**Version Control** - GitHub, Gitlab, Bitbucket

**AWS** - EC2, ECS, Lambda, RDS, EKS, CloudWatch, VPC, VPC Peering, IAM, S3, EBS, Cloud Formation, Code Pipeline, API Gateway, KMS

**AZURE** - Virtual Machines, App service, Functions, Container Instances, VMSS, Azure MySQL, Azure Monitor, Log Analytics, App Insights, Azure Kubernetes Service, Blob Storage, Azure VNET, Azure Firewall, App Gateway, Azure AD.

**EXPERIENCE:**

**DevOps Consultant, Connecticut Green Bank,** USA (May 2024 – June 2024)

Worked in a short term project

* As a DevOps Consultant, I worked on the end-to-end process, deploying tools and configuring an AKS cluster within 2 weeks. This included setting up SSL with Let's Encrypt, Azure SSO, and Auto Scaling.
* I achieved the stack setup by utilizing **OpenMetadata**, Airflow, Azure Elastic Cloud, Azure databases for PostgreSQL, **Azure** Application Gateway ingress controller, App Registration, Storage Accounts, and configuring records in Cloudflare.

**DevOps Lead, BCBSA**, USA (JANUARY 2024 – May 2024)
Worked for MMI Core Services

* Setting up Dev, PV and Prod environments for SmileCDR in **AWS**.
* Developed Cloudformation templates to provision EC2, Aurora PostGres, Security Groups, VPC, Subnet, **API Gateway**, Network Load Balancer, S3 buckets, KMS.
* Developed **Codepipeline** using **Cloudformation** templates.
* Managing cross account roles and multiple target accounts. Developed automation scripts using Bash and AWS CLI.

**DevOps Engineer, Intel,** Santa Clara (AUGUST 2022 – DECEMBER 2023)

Worked for FPGA team associated with Intel Agilex and Stratix devices

* Integrated **Bullseye code coverage** in the firmware code for software and hardware tests.
* Setting up Docuum tool for managing docker containers in GitHub runners and minimized the risk of servers going out of storage.
* Setup nightly build pipelines for each branch based on FPGA device and publishing the artifact to wider customers.
* Created **Splunk** dashboards to show daily Function Coverage & Condition/Decision Coverage analysis generated by Bullseye code coverage tool.
* Implemented Coverity scan for static code analysis of our FPGA firmware application.
* Automate setting up of test machines, making it faster and more efficient. This reduces the time it takes to get them ready and increases the time they're available for testing by 12%.
* Setup process and automation for CI/CD using GitHub Workflows, developed custom **GitHub Actions** and managing GitHub Runners on Ubuntu machines.
* Automating detection of non ascii characters to prevent **Trojan** source mitigation in firmware code.

**Cloud DevOps Engineer, SS&C Technologies,** Hyderabad, INDIA (May 2021 – April 2022)

Worked for Chorus BPM (formerly AWD) and Chorus Document Automation (formerly Vidado)

* Responsible for **AWS** cloud infrastructure automation using **terraform**, building application as AMI using **Packer** and periodical release of BPM application into client specific AWS regions with the help of Jenkins pipelines.
* Developed Azure DevOps pipeline to trigger Terraform script which will create **AKS** cluster and its dependent resources.
* Developed MLOps pipelines in azure devops to modify the files in the respository with respective variables and deploy in Kubeflow.
* Deployment of BPM application into windows server for few clients.
* Worked on the incidents and troubleshooting within SLA, support infrastructure and application failures. Responsible for **post-deployment testing** of the application.
* Applied Jenkins pipelines and shell script automations to efficiently manage applications and servers within non-production client environments.
* Oversaw infrastructure code repositories and AWS accounts for individual clients, managed user access, and maintained multiple instances of Jenkins servers, ensuring streamlined operations and optimal performance.

**Cloud Engineer, Betsol,** Bengaluru, INDIA (October 2020 – April 2021)

Worked for Avaya CCaaS

* Implemented monitoring solutions using **Datadog** to track key metrics, including response time, system performance, and infrastructure health.
* **Led** daily Datadog working sessions, fostering collaboration within the team to drive data-driven decisions and optimize monitoring strategies.
* Engaged in continuous improvement by regularly reviewing and **suggestions** for Datadog **dashboards**, analyzing historical data, and optimizing monitors to enhance overall system performance.
* Customized **helm** chart overrides, enabling seamless deployment of services on **Azure Kubernetes Service** (AKS) tailored to specific project requirements.
* Scripted solutions using **PowerShell**, streamlining processes and enhancing automation for increased efficiency in day-to-day operations.
* Conducted comprehensive manual **end-to-end testing** of the application's user interface, ensuring functionality, usability, and compatibility across different environments. Regularly updated Jira with detailed test results and collaborated with the development team to address identified issues promptly.
* Utilized NewRelic, Grafana, and AppDynamics to monitor critical metrics like response time, error rates, transactions, and application health, ensuring optimal system performance.

**Sr. Software Engineer, Ensim,** WB, INDIA (November 2019 – September 2020)

Worked for CloudBlue Connect

* Implemented monitoring solution with statsd-exporter, **Prometheus**, and Grafana for comprehensive Gunicorn metric gathering.
* Leveraged Ansible as a Configuration Management tool to streamline the application deployment process by writing Kubernetes **manifest** files through **Ansible roles**.
* Implemented a Continuous Delivery pipeline with Docker, Azure container registry and **Azure Kubernetes Service**.
* Deployed **Django Rest Framework** applications through Docker containers on Kubernetes clusters, and **VueJS** on VM ensuring scalable and resilient application deployment.
* Spearheaded the creation of **Docker-Compose** environments, catering to developers' needs for streamlined and efficient development processes.

**DevOps Engineer, SanBrains,** Hyderabad, INDIA(October 2016 – November 2019)

Worked for multiple PHP and WordPress client websites.

* Initiated building infrastructure like setup of **AWS** EC2 instances, configuring security groups, installing Apache web servers, and deploying **PHP** and **WordPress** applications for optimal performance.
* Managed user systems in PHP and WordPress, creating secure logins, role-based controls, and easy-to-use admin panels. Ensured smooth content updating processes for dynamic websites.
* Experience in AWS provisioning by creating EC2 Instances and configuring all necessary services like Security, EBS, and S3.
* Played a key role in the successful migration of websites from on-premises servers to AWS.
* Elevated online visibility through active involvement in digital marketing and **SEO** initiatives. Managed **sitemap** updates and optimized robots.txt, enhancing website performance and ensuring a search-friendly online presence.

**EDUCATION**

Computer Science Engineering, B.Tech, Jawaharlal Nehru Technological University