**Varsha A**

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**PROFILE**

Accomplished and results-driven DevOps Engineer with a solid academic foundation, having graduated from Wilmington University. Bringing over 11+ years of hands-on experience in the dynamic field of DevOps, I have successfully designed, implemented, and optimized continuous integration and delivery pipelines, leveraging cutting-edge tools and methodologies. Proven expertise in orchestrating scalable and resilient infrastructure, automating deployment processes, and enhancing overall system efficiency. Adept at collaborating with cross-functional teams to streamline development workflows and ensure the seamless delivery of high-quality software solutions. Committed to staying at the forefront of technological advancements and continuously improving practices to drive innovation and efficiency in DevOps environments.

**EDUCATION**

**Master of Science in Information Technology (IT)**

*Wilmington University, DE* *Aug 2020*

**Bachelor of Technology in Computer Science and Engineering (CSE)**

*GuruNanak Institutions, IN* *Jun 2013*

**TECHNICAL SKILLS**

* Continuous Integrations : Ansible, Chef, Puppet
* Continuous Deployment : Jenkins, Cloudbees, Docker
* Container Orchestration : Kubernetes
* Version Control Tools : GIT, GitHub, Bitbucket, GitLab, Subversion (SVN), TFS, Perforce
* Programming Languages : Python, .NET , Bash
* AWS Services : EC2, Elastic Beanstalk, ECS, ELB, Route53, S3, Lambda, SNS, RDS, IAM, CloudWatch and Cloud Formation.
* Databases : Oracle, MySQL, PostgreSQL
* Java Technologies : Servlets, JDBC, JSP
* Web Technologies : XML, HTML, CSS, Java Script

**WORK EXPEREINCE**

**Senior Build and Release/DevOps Engineer |****New Jersey, USA**Jul’2021 - Present

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* Involved in 5G RAN platform for Small cells project targeting mobile technologies and modems to efficiently harness 5GNR mmWave and Sub-6 in their products.
* Worked with Engineering, Operations, Quality Assurance and Project Management to define and execute projects that implement build, release, and deployment of software product.
* Taken care of Release and Production activities, supported in FSM100XX and FSM200XX chipsets.
* Integrating Terraform with CI/CD pipelines to enable automated testing, validation, and deployment of infrastructure changes, accelerating time to market and ensuring infrastructure reliability.
* Automated infrastructure provisioning and configuration using Ansible playbooks.
* Managed and maintained Kubernetes manifests and Helm charts in version control systems like Git for consistent and repeatable deployments.
* Orchestrated multi-tier application deployments with Ansible roles and modules.
* Managed version control repositories on GitHub, including branching, merging, and resolving conflicts.
* Automated Kubernetes cluster provisioning and management using IaC tools such as Terraform or CloudFormation.
* Wrote shell and PowerShell scripts to automate deployment tasks. Implemented scripting solutions for configuration management and server provisioning.
* Managed Internet Information Services (IIS) for hosting and deploying web applications. Configured IIS settings and application pools to optimize performance and security.
* Designed and implemented scalable and highly available Kubernetes clusters to handle varying workloads and traffic patterns.
* Configured server environments and tuned performance parameters for optimal application performance.
* Successfully migrated over 50 repositories and associated pipelines from GitLab to GitHub, minimizing downtime and disruption to development activities.
* Implemented and managed Kubernetes namespaces, deployments, services, and ingress controllers to ensure efficient resource utilization and scalability.
* Configured and managed subnet layouts within VPCs to segregate network traffic and accommodate various application tiers, such as public-facing, private, and database subnets.
* Monitoring performance and advising on the appropriate actions to ensure the success of the build.

**Environment:** GIT/GitHub, Linux(Redhat, Ubuntu), Cloudbees, Jenkins, Python,  AWS Services, Ansible, Maven, Docker, VPC, Nginx, Apache Tomcat, Terraform Modules, Gerrit



**DevOps Engineer | New Jersey, USA** Oct’18-Jun’21

* Worked together with developers to fine-tune process for newly introduced Atlassian tools in organization like JIRA, confluence, Git-Stash repository, Source tree.
* Developed Terraform templates to provision and manage AWS infrastructure as code (IaC), including EC2 instances, VPCs, subnets, security groups, and IAM roles, resulting in 15% reduction in manual provisioning time.
* Defined VPC configurations using CloudFormation templates, specifying CIDR blocks, subnets, route tables, internet gateways, NAT gateways, and VPC peering connections. Configured VPC networking components within CloudFormation templates to establish private and public subnets, route traffic between subnets, and enable internet access for instances within the VPC.
* Configured Splunk alerts and dashboards to monitor AWS infrastructure in real-time and proactively identify issues and anomalies. Set up alert conditions based on predefined thresholds and patterns to trigger notifications via email, SMS, or integration with incident management systems.
* Set up monitoring and logging solutions for Kubernetes clusters using tools like Prometheus, Grafana, and ELK stack (Elasticsearch, Logstash, Kibana).
* Proficient in troubleshooting and debugging Terraform configurations, resolving issues promptly, and implementing effective solutions to minimize downtime and disruptions.
* Collaborated with development teams to integrate Chef into CI/CD pipelines, enabling automated testing and deployment of applications in cloud and on-premises environments.
* Implemented CI/CD pipelines for Kubernetes deployments, integrating security checks and automated testing to enhance deployment reliability and security.
* Integrating Terraform with container orchestration platforms like Kubernetes to provision and manage infrastructure for containerized workloads, ensuring seamless deployment and scaling of microservices-based applications.
* Executed various scripts to automate the build and release process.
* Supported .NET applications consuming web services and APIs, including SOAP, RESTful APIs, and WCF services. Ensured compatibility, reliability, and performance of web service integrations through thorough testing and monitoring.
* Utilized Bash scripting to automate routine maintenance activities, such as log rotation and backup processes.
* Configured and deployed elastic load balancers (ELB/ALB/NLB) to distribute incoming traffic across multiple instances or containers, improving application availability, fault tolerance, and scalability.
* Integrated Lambda functions with Amazon API Gateway to create RESTful APIs and build scalable, serverless web services.
* Worked to create IAM roles to manage resources in AWS.
* Created detailed documentation of complex build and release process, post release activities process, JIRA workflow and Release notes.
* Resolving build issues during build and release cycle by conducting meetings with developers and managers.
* Worked as AWS POC. Good understanding of AWS infrastructure.
* Used shell scripting to automate procedures for automated deployment in Linux based systems.

**Environment**: AWS Services (EC2, S3, ALB/ELB, VPC, Auto Scaling, Route53, CloudFront), Cloudbees, Jenkins, Maven, Ruby, Bash, Ansible, Docker, Kubernetes (EKS), Microservices, GIT/GitHub, Terraform, Nginx, Linux (Redhat, Ubuntu), Apache Airflow, Jira, Confluence, Python

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**DevOps Engineer | Hyderabad, IN** Nov’16-Aug’18

* Established running processes for on-going maintenance monitoring support and security patching of a platform.
* Possess excellent trouble-shooting skills, are driven to help internal/external customers.
* Managed day to day issues including daily health checks of applications and processes, working closely with end users, development staff and Infrastructure teams, to prioritize and resolve and/or mitigate outages.
* Integrating Terraform with other DevOps tools such as Jenkins, GitLab CI/CD to automate infrastructure provisioning and deployment as part of the continuous integration and continuous deployment (CI/CD) pipelines.
* Implemented health checks and auto-scaling policies with load balancers to dynamically adjust backend instance capacity based on traffic patterns and performance metrics.
* Developed and maintained Bash scripts for system monitoring and alerting, ensuring proactive identification and resolution of issues.
* Implemented logging mechanisms using CloudWatch Logs and set up CloudWatch Alarms for monitoring the performance and health of ECS clusters.
* Setting up performance monitors and evaluating logs to determine performance problems or recommending steps to remedy a situation.
* Integrated Python, Ruby, and Bash scripts into CI/CD pipelines, automating the build and deployment processes seamlessly.
* Worked as a system administrator for the build and deployments process on the enterprise server.
* Worked with other operation support teams to improve process flow.
* Worked closely with the vendors to make sure solutions are implemented correctly.
* Worked with vendors and datacenter technicians for installing/troubleshooting/replacing hardware as necessary.
* Provided technical expertise in the identification, design, modification and implementation of integrated services and technologies at the Enterprise level.
* Implement and manage infrastructure as code through Chef and other automation tools.
* Implemented and managed continuous code build and deployment with Go and other tools.
* Building high performance web services, using languages such as python.

Environment: AWS Services (EC2,S3,ALB/ELB,ECS,VPC,AutoScaling,Route53,Lambda,CloudFront), Jenkins, Maven, Terraform, Docker, Python, GIT, Nginx, Python/Shell, Linux (Red hat, Ubuntu), LDAP, Bash

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**Software Engineer |** *Hyderabad, IN*  *Aug’13–Oct’16*

* Experienced architecting and supporting highly available and highly scalable infrastructure.
* Passionate about new knowledge and innovation. Ability to grasp technical concepts quickly and apply that knowledge to DevOps efforts within the team.
* Knowledge in building distributed, highly available applications.
* Developed and maintained bank’s strategic developer enablement platform with a view to improving scalability, reliability, performance, and resilience.
* Strong knowledge of the HTTP protocol and ability to understand decipher the HTTP conversation.
* Ability to work at a high level of professionalism and quality with customers.
* Developed tools and frameworks to improve security, reliability, maintainability, availability, and performance for the technology foundation of our platform.
* Agile Scrum Methodology has been followed for the development process.
* Designed different design specifications for application development that includes front-end, back-end using design patterns.
* Worked at a strategic level with project managers and architecture team influencing, designing, and delivering service improvements and business change.
* Provided performance statistics and reports.
* Managed lab/development environments and refreshed the environment properly.
* Developed automation solutions leveraging shell, Perl, and Java scripts to increase operational efficiency.
* Ensured servers are patched with the latest firmware and OS updates using tools provided.
* Developed automation solutions leveraging shell, Perl, and Java Scripts to increase operational efficiency.
* Supported Application teams and assisting with complex issues.

**Environment:** Subversion, Python, JavaScript GIT, Ruby, JIRA, Bash, XML, Windows XP, Windows Server, Web logic, MY SQL, Nagios