**Selvadhurai Gunasekaran**

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**Cloud /DevOps Engineer**

## SUMMARY

Experienced AWS Cloud release engineer with 20 years of experience in design, implementing, testing, integrating, and performance tuning distributed software applications and mobile applications. Expertise in evaluating, and solving issues related to cloud infrastructure. Specialist in performing inspections and ensuring the continuous integration process of cloud resources.

* Provided cloud support to clients and recommended AWS resources that suit their businesses.
* Active member of an Agile team to contact the sprint Refinement, Planning and retrospective.
* I am tasked with designing an IAM security policy for the Internal technology team, medical Event Coordinator Team, and the marketing Team.
* Successfully Build and deploy the eSignature App code for mobile and iPad.
* Proficient in providing exceptional AWS cloud support, diagnosing and resolving issues promptly, and optimizing system performance. Consistently ensured high availability and reliability of cloud infrastructure, contributing to improved operational efficiency.
* Working with AWS services such as EC2, VPC, RDS, CloudWatch, CloudFront, CloudFormation, Route53 etc.
* Demonstrated ability to leverage Splunk's powerful analytics to identify performance bottlenecks, troubleshoot issues, and optimize AWS resources, resulting in enhanced system reliability, cost efficiency, and operational excellence.
* As a Cloud Engineer, I help design, provision, configure and maintain AWS, Azure cloud, and On-premises infrastructure that is secure, scalable, and highly available.
* Knowledge about configuring Ansible to provisioning an infrastructure and monitoring the compute hosts services.
* Knowledge to use API tool Swagger, SoapUI, Postman
* Successfully used terraform to automated DevOps infrastructure to AWS and Azure cloud platform.
* Proficient in writing and executing UNIX shell scripts, python to automate tasks, manage files, and process data.
* Migrated services from onprem env to Azure env, by making necessary changes in config role and playbook, and build, deploy using Jenkins Job.
* Used Lens Tool extensively for the deploying and monitoring the pods logs and instant scale up or scale down the pods.
* Good knowledge on managing and integrating code quality tools like SonarQube, manage Sonar Rules and Quality Gates.

## TECHNICAL SKILLS

## Cloud Technology AWS (IAM, EC2, S3, Lambda, Elastic Cache, EKS, Elastic Search, Security Group, VPC, cloud watch), Azure AKS

## DevOps Jenkins, Dockers, Kubernetes, Git, EKS, ECS, Buddy, Ansible, Terraform, Selenium, JIRA

## Monitoring tools Grafana, Prometheus, Lens, Splunk, Datadog, kibana

## Database SQL Server 2012, SSIS, Main Frame DB2, Oracle, NoSQL MongoDB,

## Microsoft Tools Visual Studio Code, .net, Microsoft Project, Visio, PowerPoint, Excel

## Scripting Java Script, Angular JS, Node JS, HTML, Groovy, Python, PowerShell

## Web Service Technology JSON, XML, JDBC, MySQL

## Repository Source Tree GitHub, Source Gear Vault, MS VSS, Code Commit

## Mobile iOS (iPhones & iPad), Xcode, Android Studio

## Language C, C++, C#, JAVA

## Methodologies Agile / Scrum, Waterfall, Hybrid Agile / Waterfall

## PROFESSIONAL EXPERIENCE

**MedForce, Shrewsbury, NJ (June 2019 - Present)**

***Cloud Lead DevOps Engineer***

* Proficient in designing and implementing Infrastructure as Code (IaC) solutions to create, deploy, and manage cloud resources efficiently.
* Leveraged tools such as Terraform and AWS CloudFormation to define infrastructure in a declarative manner, ensuring consistency and reproducibility infrastructure provisioning using Terraform, automating cloud resource management.
* Focused DevOps professional with a strong emphasis on the operational aspect. Skilled in designing and managing robust CI/CD pipelines, automating deployments, monitoring, and ensuring high availability.
* Integrated SonarQube with Jenkins for continuous inspection of code quality and analysis with SonarQube Scanner for Maven.
* Developed customized Splunk dashboards and alerts tailored to AWS environments, allowing for proactive monitoring of key performance metrics, cost optimization, and seamless incident management within AWS infrastructures.
* Proficient in crafting infrastructure as code, optimizing cloud resources, and implementing efficient incident response processes
* Create custom image registry to store application images and deploy in corporate environments using docker and Kubernetes. And monitoring and Virializing the pod metrics via Prometheus, Grafana
* Used Jenkins Pipeline to drive all microservices to build out of the docker registry and then deployed into Kubernetes created Pods and managed using Kubernetes.
* Designed and deployed the production build system using Jenkins with Groovy scripting, ensuring a streamlined and efficient deployment process.
* Proficient in crafting AWS services like EC2, VPC, Load balancer, OpenSearch etc through the utilization of both Terraform and CloudFormation.
* Regularly leveraged AWS OpenSearch to analyze the client's daily data feed and using Kibana to visualizing the data in the dashboard.
* Configuring kibana into the Amazon ES to monitoring microservices activity
* Responsible for interacting with customers to gather the requirement, analysis, design providing solution and framework architecture implementation.
* Creating the S3 buckets and managing policies for S3 buckets and utilized S3 bucket and Glacier for storage and back up on AWS.
* Proficient with container systems like Docker and container orchestration like ECS container service, Kubernetes, EKS.
* Experience using logging and monitoring tools like CloudWatch and CloudTrail.
* Configured Amazon SQS message queue service for exchanging messages through a polling model, decoupling sending and receiving components, while also configuring SNS for notifications and CloudWatch for log and metric collection.
* Had created a new Redis cluster in ElastiCache for a specific namespace.
* Monitoring Elastic search storage space, if the storage used is above 80%, an alarm will be triggered. A curator is set to delete indices at every 8 hours interval.
* Use Docker for creating QA and Staging environment with Docker and Docker-Compose and actively involved in deployments on Docker using Kubernetes.
* I had designing, developing, and deploying serverless AWS Lambda functions for executing code in response to events. Utilized Lambda to automate tasks, trigger data processing, and enhance system scalability, resulting in optimized resource utilization.

**Sudler & Hennessey a WPP Group Company—New York NY (2010 - 2019)**

***Cloud DevOps Release Engineer***

* Managed Docker orchestration and containerization using Kubernetes.
* Build CI/CD Pipeline, Using Jenkins Job to build the latest images in Eco pipeline.
* Used DataDog to proactively identify and mitigate performance bottlenecks and operational issues within AWS environments. Responded swiftly to incidents, conducting root cause analysis using DataDog data to minimize downtime and enhance system reliability.
* Configured Security with Amazon VPC and AWS IAM.
* Configured Security groups with EC2 or inbound traffic and NACL’s as a firewall for controlling traffic in and out of one or more subnets.
* Launched Amazon EC2 cloud instances using Amazon images and configuring launched instances with respect to specific applications.
* Configured NGINX Plus API gateway authentication API calls, routes requests to appropriate backends.
* Contact IOS Mobile App application test execution for the system under simulated as well as real-world conditions.
* Configured AWS CloudFront web service that speeds up distribution of static and dynamic web content from S3 bucket.
* Involved in Automation Infrastructure Development using Selenium WebDriver.
* Used GIT Repository source code management tools for central maintenance.
* Enhanced the Selenium Test cases for Cross browser testing.
* Contact the scrum meeting everyday basis and schedule the hotfix allocation to the team and end of the day collecting the test reports.
* Read the Angular JS web product and Design test automation framework by using Selenium with Protractor and Jasmin.
* worked REST API testing by using the Postman API platform.
* Prepared a test environment with the JDE Financial system and contacted the system level testing for the Client.

**Droisys Inc, Santa Clara, CA (2009 - 2010)**

***Senior QA Engineer***

* Working with Agile team to frame the sprint.
* Using JIRA to maintain the Client Requirements and Asserts
* ETL Data Validation, Metric Verification and Report (Business Object tool) Testing.
* Validated ETL processes and made sure that the data from source to target tables were loaded correctly. Created and executed complex SQL queries to validate the flow of data.
* Created and executed the batch using DTS Packages.
* Prepared clear and specific defect reports as required for identified software defects and functional defects.

**MipsGlobal Inc, Ashburn, VA (2007 - 2009)**

***Senior QA Engineer***

* Responsible for Functional, Regression, UAT testing and performance testing for sales rep and even coordinator roles.
* Created test cases for the Mobile App application on multiple platforms including Android and iOS.
* Provided management and client with analysis reports and recommendations, which resulted in a redesign of the architecture by the developer.
* Wrote a macro using Automated Build Studio and pulled the latest source code from Vault to build a test and staging environment for testing.

**GXS, Bangalore, India (2005 - 2007)**

**Senior QA Engineer**

* Construction phase to test the prototype for the developed application using the test cases.
* Prepared QTP scripts and executed functional test cases.
* Identified performance issues with the application and the integrated internal procurement system from the developer. Contact the Load test by running the Load Runner Script

**Aditi Technologies, Bangalore, India (2003 - 2005)**

**Software Engineer**

* Created various test bed environments for Microsoft Tablet PC operating system build.
* Prepared Test strategy documents, test plan, test scenarios and responsible for creating test cases.
* Implemented the Testing Basics like Serviceability, Reliability, Manageability, Componentization, Compliance, Security, localization and Accessibility. And prepare test cases for all the basic and executed successfully.

## EDUCATION

**Master of Computer Applications India**

**Bharathidasan University**

**Bachelor of Science in Computer India**

**Bharathidasan University**

**AWS Certified Cloud Practitioner**