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Objective

To succeed in an environment of growth and excellence and earn a job which provides me satisfaction and self development and help me to achieve organisational goal.

Educational Qualifications

Degree	University/Board	Year Of Passing	Marks
B.Tech. Computer Science and Engineering	Kerala University	2015	6.82 CGPA
Higher Secondary Education	CBSE Board	2010	71.6%
Secondary Education	CBSE Board	2008	80%

Technical Skills

Operating Systems	Linux, Windows, Mac
Cloud Platforms	AWS, Alibaba Cloud, Google-Cloud, Azure, Dimension-Data, RackSpace, DigitalOcean
CM Tools	Puppet, Ansible
CI/CD Tools	Jenkins, Hudson, GitLab CI
Monitoring Tools	Prometheus, Nagios, NewRelic, Grafana, GrayLog
Ops Tools	Kubernetes, Docker, Consul, Jmeter, Pagerduty
Web/Application Servers	Apache, Nginx, Tomcat, Wildfly, Jboss
Others	Bash, Python, Javascript

Professional Experience

- SDE-DevOps, Handzap Inc (2019 Feb - Present)
- Senior DevOps Engineer, QBurst Technologies (2015 June – 2019 Jan)

Projects

1. A Global OnDemand marketplace application where users can instantly hire people or get hired to do various quick jobs. This application is free of cost and catering to Anyone, Any Service, Anywhere. This a feature packed platform involving Chat, Voice and Video Call services built in.

Technology Used: SpringBoot, Java, Erlang, NodeJS, API Gateway, Kubernetes, CloudFront, Jenkins,

ECR, Mongo, Aurora MySQL, Aurora Postgres, ElasticSearch, ELK, Prometheus, Lambda, Ansible, Kafka, SSO, AWS, AlibabaCloud, AWS China, Cloudflare, Wangsu, Pushy, MongooseIM, Stun,Turn, WebRTC, Mnesia, JMeter.

Role and Responsibilities:

- Created and designed infrastructure to fit its highly scalable nature.
- Created an environment in Mainland China with different third party integrations to comply with China Firewall restrictions.
- Created a CI/CD pipeline for the automated build involving test case scenarios, inline scans to deployment in Kubernetes in the corresponding environment based on the branch name.
- Deployed Java based backend services in Kubernetes as Microservices capable of scaling each service from 10 to 1000's based on the traffic.
- Implemented custom scaling solutions in Kubernetes, to use Java or Application specific information as condition for scaling up or down instead of just memory and cpu.
- Scalability of WorkerNodes based on number of Pods, status of pods, using Custom Cluster Autoscaler apart from the default ASG
- Deployed Kubernetes in EKS with VPC CNI as networking plugin, ACK with Terway as CNI and Custom build kubernetes cluster with Calico for DR Scenario.
- Created Ansible Playbook for deployment of Chat-Video and Voice call backend using Erlang and MongooseIM.
- Created Image Transcoding function using Lambda and NodeJS for providing images in different sizes based on Mobile device and PWA requirements.
- Created a video transcoding function to create Thumbnail from the video after playing it till a few seconds.
- Deployed ELK for streaming logs from Kubernetes services along with zipkin for tracing.
- Prometheus, AlertManager and Grafana for Monitoring and alerting and NewRelic for Application monitoring.
- LoadTested the environment covering all APIs using Jmeter and tuned the environment to sustain the expected request limit per second.
- Created environment with HA along Fault Tolerance for the components in the environment.
- Tuning ElasticSearch cluster to provide more performance based on replicaset and shards
- Compliance with CIS for all servers being used and security tested and fixed all possible

vulnerabilities mentioned in OWASP.

- Implemented Payment facility Globally in Beta and following Compliance policies to get PCI certification and ISO certification.

2. The application allows users to quickly and easily place images of themselves, other people or any object within photos they are viewing and share them via the app or other social networks along with Image processing.

Technology Used: PHP 5.6 / CodeIgniter, REST API, jQuery, AJAX, MySQL 5, Monolog, JIRA, Confluence, SVN, Jenkins, AWS Elasticsearch, AWS ElastiCache, AWS Route53, AWS Redshift, Nagios, Ansible, Jenkins, Kinesis, GrayLog

Role and Responsibilities:

- Created new architecture to support a bigger user base.
- Added Nagios monitoring to the service.
- CloudFormation was used for setting up the environment using IAAC
- Using RedShift for keyword Analysis and pushing analytic data using Kinesis.
- GrayLog for service and Log monitoring
- AutoScaling with ALB and automated Launch configuration updates using Ansible
- Server optimisation and hardening to support a huge user base.
- Database access using Route53 weighted load balancing
- Architected the environment to cover HA and DR

3. Android/iOS App to track daily activities using Tracking Bracelet

Technology Used: Python, Docker, Jenkins, Android and IOS API, AWS services like CDN, S3, EC2, VPC, RDS, Redis, SQS

Role and Responsibilities:

- Setting up the Production and Staging environments
- Creating a docker registry for the project
- Automating the build and deployment process along with AutoScaling AMI updation using Jenkins-CI
- Implementing Green-Blue deployments

- Data migration of Legacy app users
- Automating the backup scripts for Mira Instances and Databases
- Deployment of Production Node JS static files to S3 using Jenkins with Grunt
- Automating server monitoring of dynamic auto-scaled instances in auto scaling group using Nagios , shell scripting and Ansible

3. Website and Mobile Application with capabilities including GPS, Hours Of Service, IFTA mileage reporting, Hours Worked by driver, Accident Scene Management tools, Fuel Tracking, patented Closed Loop Inspection Process including the mechanic, document management system, remote write-up program etc.

Technology Used: Wildfly, MLAB, AWS hosting, EC2, Aurora, Mongo,CDN, Ansible, Jenkins, Cloudformation

Role and Responsibilities:

- Using Jenkins job with Ansible for Build and Release processes.
- Created Cloudformation stack to build the entire infrastructure
- Ansible for Pre and Post Build jobs.
- Migrating from a standalone Dimension Data server to full fledged HA environment in AWS
- AutoScaling and white labelling of application at the Application Load Balancer end.
- Scaling and Testing based on user base and environment.
- Log and Heap Dump analysis to improve performance and point out issues.
- Monitoring using Nagios and APM.
- Integrating Sonarqube to the build process and building based on Quality Gate ranking.

4. Managing environment (both cloud and on-premise) using Puppet

Technology Used: Puppet Enterprise, Bash

Role and Responsibilities:

- Hardening servers based on requirement
- Provisioning infrastructure on AWS, Azure, VSphere and HyperV using Puppet
- Creating custom repositories for different Linux flavours like RHEL, SUSE, OEL, Ubuntu etc and updating using the repositories on all machines in the environment
- Patch update module for Windows, Linux and OSX.

- Application server installations on Server

5. Building ECommerce platform on Magento Enterprise.

Technology Used: PHP, Magento 2.0, Apache Solr, Tomcat, AWS services like CDN, S3, VPC, EC2, RDS, Elastic Cache

Role and Responsibilities:

- Setting Up the Production environment
- Implementing the Failover and DR on the environment
- Software stack installation
- SMTP configuration, S3 mounting on EBS volume
- Automating the scheduled AMI and Snapshots via AWS CLI
- Setting up Virtual Scanner for monthly vulnerability testing

6. This is an API/UI layer for Big Data services where clients can login to web app and access statistics from Big data backend.

Technology Used: Hadoop, Zookeeper, HDFS, Spark, Hive, Hue, Oozie, Sqoop, Splunk, Zeppelin, MapReduce, YARN, Jenkins

Role and Responsibilities:

- Setup the cloudera infrastructure and all its related services
- Added Nagios monitoring to the services
- Debugging and fixing all cloudera related issues reported by client
- Adding new services to the cluster
- Testing MapR and Oozie jobs in the cluster

7. Others

- Worked as DevOps Consultant for Food Delivery Application and Robotics UIPath based application.
- Worked as a Security Analyst for a Logistics based company and a Government project.
- Worked as L3 Support team member for QBurst.
- Infrastructure architect for many QBurst client projects.
- Worked onsite for an on-premise restricted environment project.
- Worked as an architect for infrastructure setup, design and automating failover concept for projects
- Worked with an online portal to analyse and improve performance of RIAK KV, the clustered DB

Declaration

I hereby declare that the information furnished above is true and complete to the best of my knowledge and belief.

Ruben Rajan Idicula