**Arun**

## EXECUTIVE SUMMARY

Over all 18 years of experience as Cloud Software Architect, DevOps, SRE, DevSecOps, Kubernetes, Cloud Storage, ELK, CI/CD, monitoring, visualization with New Relic, Prometheus and Grafana, application Developer, Software Configuration, Build and release Management and AWS Cloud Environment, Elastic Search, Kibana, Logstash, Postgres, AWS, Kafka, Docker Jenkins. Very good experience in Cloud services and end to end deployment build pipeline.

## PROFESSIONAL SUMMARY

* Certified AWS Solutions architect professional level
* Managed Docker orchestration and Docker containerization using Kubernetes.
* Experienced in hosted and AWS managed EKS, ELK clusters
* Experience with Jenkins administration, backups, and plugins. Using master slave configuration maintained various jobs in Jenkins and supported development teams.
* Expert in using ELK Stack; Elasticsearch for deep search and data analytics, Logstash for centralized logging, log enrichment and parsing and Kibana for powerful and beautiful data visualizations.
* Used Kubernetes to orchestrate the deployment, scaling, and management of Docker Containers.
* Experience in Kubernetes to deploy scale, load balance and manage Docker containers with multiple names spaced versions and good understanding of Platform in managing Docker Containers and Kubernetes Clusters.
* Monitoring Kubernetes clusters metrics with Grafana and Prometheus
* Implemented AWS Cloud platform and its features which includes EC2, EKS, Guard Duty, AWS VPN, VPC, EBS, AMI, SNS, RDS, Cloud storage EBS, EFS, S3 Cloud Watch, Cloud Trail, Cloud Formation AWS Config, Auto scaling, Cloud Front, IAM, R53.
* Experience in Working with the application developers to understand the application characteristics and assists them in developing the deployment artifacts like Helm Charts in the case of K8s
* Develop strategies for designing and operating cloud-based database services, considering factors like availability, durability, and performance.
* Experience in build automation and tooling for managing releases using Helm and other K8S tools
* Experienced in implement application containers and develop scalable deployment architecture on Kubernetes clusters
* Experience with Cloud automation technologies such as Cloud Formation and Terraform and experienced in using Terraform for building, changing, and manage existing and cloud infrastructure as well as custom in-house solutions. Proficient in writing Templates for AWS IAC using Terraform to build staging and production environments.
* Experience in code deployment, Orchestration and Scheduling using tools such as Kubernetes, Docker Swarm, CloudFormation, and automation validation using Ansible and Terraform.
* Experienced in Splunk and New relic APM, Insights, Plugins, Servers, and Synthetics.
* Worked as an organizational committee member in AWS cost reduction across multiple accounts
* Experience in production on-call support

## EDUCATION SUMMARY

* Bachelor’s Degree in Computer Science, SV University, India- 2003
* Master’s Degree in Computer Applications (MCA), SV University, India -2006

## PROFESSIONAL EXPERIENCE

### Speridian Technologies, Sept 2023 to Till Date

### Client: Verizon, Folsom, CA

### Cloud Software Architect

* Analyze business requirements and collaborate with stakeholders to define cloud software architecture.
* Make decisions on the selection of appropriate cloud services and technologies based on scalability, performance, and security requirements.
* Design and implement networking solutions, including API gateways, firewalls, routing, and security policies within the cloud environment.
* Ensure adherence to security best practices and implement security measures to protect cloud- based applications.
* Implement scalability and performance optimizations for cloud software to handle variable workloads efficiently.
* Utilize Docker and Kubernetes for containerization and orchestration, ensuring efficient deployment, scaling, and management of containerized applications.
* Evaluate and implement serverless computing technologies for specific use cases, optimizing resource utilization and cost-effectiveness.
* Design and implement scalable and reliable database solutions, considering both relational and object stores. Address scaling, sharing, and replication needs.
* Implement robust monitoring and logging solutions in the cloud environment, ensuring effective tracking of system performance and troubleshooting issues.
* Develop strategies for log retention and cost optimization.
* Collaborate with development and operations teams to integrate DevOps practices and implement continuous integration and continuous deployment (CI/CD) pipelines.
* Create high-quality documentation that covers architectural decisions, design, and implementation guidelines. Ensure documentation is accessible and understandable by various stakeholders.
* Integrate security measures into the development lifecycle, ensuring that security is considered from the initial stages of development through deployment.
* Work within an Agile development methodology, participating in sprint planning, reviews, and retrospectives. Adapt to changing requirements and priorities.
* Implement infrastructure as code (IaC) practices, automating the provisioning and management of infrastructure resources in the cloud.
* Incorporate security into the DevOps process, ensuring a holistic approach to development,

security, and operations (DevSecOps).

* Utilize cloud database services provided by platforms like AWS, or Google Cloud, ensuring efficient and secure data storage.
* Ensure optimal configuration, tuning, and maintenance of open-source database systems.
* Implement and manage distributed database solutions to meet performance and reliability requirements.
* Design APIs and microservices architecture to facilitate modular and scalable application development.
* Implement best practices for API design, versioning, and documentation to ensure interoperability and maintainability.
* Leverage Kubernetes for container orchestration, managing the deployment, scaling, and operation of containerized applications.
* Use Helm charts for defining, installing, and upgrading even the most complex Kubernetes applications.

### Intel corporation, Folsom, CA Aug 2021 to Sep 2023 DevOps/Cloud Software Architect (Kubernetes, SRE, ELK & DevOps)

* Own technical leadership of DevOps, ELK and cloud services roadmap.
* Managing the on-premise lab and resources
* Setup telemetric data visualizations using ELK stack. Visualization using Kibana
* Architected and developed highly available Kubernetes cluster
* Site reliability (SRE) activities to work with multiple cross functional teams
* Automated Kubernetes Cluster (AWS) creation and other Infrastructure using terraform.
* Increased cluster performance by profiling and sizing micro services.
* Monitor, Debug, and fix go lang runtime failure, Go Routines and memory leaks, network I/O
* Enhanced db performance for slow queries, Indexes, throughput on MongoDB and SQL databases.
* Build Deploy and upgrade dockers, Kubernetes clusters using EKS, KOPS and GKE
* Core member of a team responsible for designing and implementing a modern Infrastructure. Automated the provisioning of Cloud Infrastructure (IaC) using terraform in AWS Cloud resources, and load balancers with Kubernetes CRDs and custom controllers.
* Provided guidance and delivered code to help migrate on-premise VM deployments to AWS.
* architect of an k8s solutions that simplified Kubernetes onboarding for developers. Built a user- friendly tool and GitOps pipelines that concealed the complexity of the underlying Kubernetes platform and allowed for baked-in best practices and enforcement of security policies.
* Design and implement Service Mesh using Istio for the platform services
* Create and manage CI/CD pipelines using github actions, helm, pipelines.
* Created ansible playbooks for System configurations changes and Daemon sets.
* Ongoing effort to Reduce cloud services bill.

### Speridian Technologies Jun 2019 to July 2021

**Client: Verizon, Ashburn, VA Senior ELK stack engineer**

* Designed and implemented a continuous build-test-deployment (CI/CD) system using Jenkins to support weekly releases and out-of-cycle releases based on business needs
* Designing, deploying, and managing the ELK Stack infrastructure for log analysis and monitoring.
* Collaborating with application developers to integrate ELK Stack into their Spring Boot Java applications.
* Developing and maintaining custom log ingestion pipelines using Logstash to collect and parse logs from various sources.
* Creating and managing Elasticsearch indices, mappings, and templates to optimize search and storage efficiency.
* Configuring and fine-tuning Logstash filters and grok patterns to extract relevant info from logs.
* Implementing data enrichment techniques, such as geoIP lookups or user agent parsing, to enhance log analysis.
* Building and maintaining Kibana dashboards and visualizations to provide insights and facilitate troubleshooting.
* Collaborating with Oracle database engineers to ingest and analyze database logs within the ELK.
* Implementing alerting and notification mechanisms based on predefined log patterns or threshold conditions.
* Monitoring and optimizing the performance and scalability of the ELK Stack infrastructure.
* Troubleshooting and resolving issues related to log ingestion, processing, or search functionality.
* Staying up-to-date with the latest features and best practices in ELK Stack and recommending improvements or upgrades.
* Providing guidance and support to application developers on log formatting, logging best practices, and log analysis techniques.
* Collaborating with security teams to implement log-based anomaly detection or threat hunting capabilities.
* Documenting the ELK Stack configuration, processes, and troubleshooting guidelines for reference and knowledge sharing purposes.
* Implemented ELK stack to trace all Kubernetes POD logs using fluentd
* Integrated SonarQube with Jenkins for continuous inspection of code quality and analysis with SonarQube scanner for Maven.

### Realtor.com, Santa Clara, CA May 2018 to Jun 2019 Staff Software Engineer – Platform and AWS Solutions

* Created Kubernetes clusters using Kops as hosted K8s clusters
* Implemented well architected deployment model across the organization
* Implemented Jenkins automated build pipeline with CI-CD
* Provided re-usable automation pipeline utility across the business unit
* Provided end to end ELK stack architecture, log and data ingestion pipeline from Oracle , Mongo to ELK stack, Completely on live streaming pipeline.
* Work with DevOps to make sure there are tools in place for monitoring the system, and log management to effectively handle incidents
* Work with cross functional teams to resolve the conflicts and implement the business model architecture to improve the cloud environment
* Implemented K8s monitoring with grafana and prometheus
* Worked with Jenkins, AWS, Docker, ECR, Storage, EKS, IAM, Networking, Kops, Kubectl, Kubernetes, Route53, ELB, ALB, RDS, EC2,ECs, VPC,SNS, SES, Data Lake, LAMDA, CloudWatch
* Real-time smart notification mechanism with Data engineering and data science products
* Assist in providing development estimates to Product and Program Managers
* Involved in end-to-end release management and configuration management

# Intuit Inc. Mountain View, CA July 2014 to Apr 2018 Senior Devops engineer

* Involved with Agile software development methodology.
* AWS cloud application hosting including EC2, ELB, S3 and launched AWS EC2 instances
* Elasticsearch cluster setup and managing the cluster and nodes
* Building CI/CD pipelines in Jenkins, Site reliability activities with operations
* Infrastructure as a code toolset with Terraform, CloudFormation, AWS-CDK
* Monitoring application with Splunk, APM and NRQL with Newrelic
* Worked with static assets in Web and App containers.

# Hewlett Packard, Bangalore, IN June 2010 to June 2014 Project Lead

* Gathering and analysis of client requirements.
* Database modeling and design. Involved in developing and implementation of the web application using Ruby on Rails and Python.
* Used Restful API to gather sales related data for products.
* Designed application using Rails 3.1, HTML/CSS, Jquery, JavaScript, Angular.JS, JSON and XML
* Building CI/CD pipelines in Jenkins
* Working with Ruby gems such as ruby-pg for Oracle- PostGRE-SQL
* Developed the user authentication and order processing modules for customer facing application.
* Implementing Behavior Driven Development using Rspec And Cucumber Performed testing **Hewlett Packard, Bangalore, India (Capgemini, IN) Mar 2007 to June 2010 Senior Developer**
* Designed Single Page Application for Web using MVC framework worked in the design and development phases of the application using ROR framework.
* Involved in developing and implementation of the web application using Ruby on Rails.
* Used Restful API to gather sales related data for products.
* Designed the front end application using Rails 3.1, CSS, AJAX and Jquery.
* Working with Ruby gems such as ruby-pg for Oracle- PostGRE-SQL
* Developed the user authentication and order processing modules for customer facing application. **LP Online Banking, Bangalore, India Jan 2004 - Feb 2007 Web Developer**
* Worked with JavaScript, jQuery, CSS, XML,WSDL
* Designed the front-end applications, user interactive (UI) web pages using web technologies like HTML, XHTML, and CSS, , jQuery, JavaScript, JSON, XML.
* Version Control with Svn.(Subversion) and Involved in the Unit Testing