Sumit kumar tiwari

Solution Architect

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Summary

- Innovative and analytical Business, Technology, and Software Engineering Leader with 10+ years of experience in Cloud and legacy environments.
- Software development experience spanning Solution Architecture, Application development - Microservice architecture, API First approach, DevOps, Security, Agile project management, Site Reliability, web development, Microservices and hands - on application troubleshooting in enterprise and Cloud SaaS/PASS and Confidential azure PaaS and IaaS.
- Implemented and managed for Devops infrastructure architecture, Terraform, Jenkins, Puppet and Ansible implementation, Responsible for CI infrastructure and CD infrastructure and process and deployment strategy. With tools like SonarQube, Nexus, Fortify, Owasp, Confluence, Junit, Nunit part of pipelines.
- Good experience in managing, developing and leading the team in continuously delivering, generating API platform built around micro-services, Docker, Kubernetes architecture in the public, private and hybrid cloud, managing infrastructure using terraform, ARM Templates and AWS Cloud Formation.
- Hands on experience in building out whole new environments on Confidential Azure, and Amazon Web Services (AWS). Automating the setup using native and built out tools.
- Lead the design and implementation of AWS and Azure cloud solutions for the Risk and Finance organization at major investment banks that resulted decrease of infrastructure TCO and converted CAPEX to OPEX model.
- Implemented IaaS and PaaS services in AWS/Azure including VPC, IAM, EC2, S3, RDS, Redshift, DynamoDB, Glacier, Kinesis, LAMBDA, ECS, Cognito, API gateway, network integration, directory integration, VPC peering etc.
- Experience on Docker, Kubernetes
- Have good work experience on Spring Framework (Core, MVC, AOP, JDBC, Spring Data JPA), Spring Boot, Spring Webflux, Spring Cloud (Config Server, Ribbon, Eureka, Zuul, Sleuth, Hystrix and Bus) and Java Micro-services.
- Experience in creating microservices patterns SAGA, Hybrid, CQRS.
- Configured Elastic Search for log collections and Prometheus, Kibana & LogStash for metric collections.
- Expertise in implementing solutions based on Web & Mobile applications with frameworks like Angular, React, Redux.
- Experience working with developers and helping them to migrate applications from traditional IT to microservices using containers.
- Handled various project under CMA (Cloud, Micro-services and API) across LATAM clients, in Brazil, Peru, Columbia and Nearshore US clients in Uruguay.
- Team Player and self-starter possessing effective communication, motivation and organizational skills combined with attention to detail and business process improvements, hard worker with ability to meet deadlines on or ahead of schedules
- Last not the least, a continuous learner to keep update the current technology stack and adding new things every quarter.

Skills

OS Platforms
RHEL, UNIX (Solaris 8,9,10), Linux 5/6, Ubuntu, AIX, Windows 2008,2012

Container & Orchestration
Docker | Kubernetes | AKS | EKS | Vagrant | Rancher

Architecture Pattern
Microservice Patterns, decomposition, Sagas, DDD aggregate Pattern

Web Technologies
HTML5, CSS3, Bootstrap, JavaScript, TypeScript, JQuery, AJAX, AngularJS, React

Build/Automation Tool
Maven, Gradle, Npm, Webpack, Ansible, Chef

Testing Frameworks
Junit, Nunit, TestNG, Selenium, Postman, Mockito, Appium

DevSecops
CI/CD pipeline, SAST, DAST, IaC, openVas, Terraform

Cloud Services
AZ(ARM,AKS,API gateway) & AWS (EC2, S3, ELB, CloudWatch, IAM), High availability, resilience, Cost optimized migration strategy

Java/J2EE Technologies
Spring, Hibernate, Spring MVC, Spring Web Flow, Spring IOC, Spring, Spring Security, Spring Boot, JUnit, Apache CXF, SOAP UI, GWT, Jersey

Streaming
Kinesis, Kafka

Monitoring tools
Nagios, Dynatrace, Splunk, Elk, Fluentd, Prometheus, Grafana, Azure Monitor, AppInsights, AWS CloudWatch

Certificates

- AWS Certified Solutions Architect - Associate (SAA-C02) ☑
- AZ-900: Microsoft Azure Fundamentals ☑
- Oracle Cloud Infrastructure 2019 Certified Architect Associate ☑
- Oracle Cloud Infrastructure Developer 2020 Certified Associate

- AWS Certified Cloud Practitioner certification ☑
- Oracle Cloud Infrastructure 2019 Certified Architect Professional
- Oracle Cloud Infrastructure 2019 Cloud Operations Certified Associate
- Oracle Cloud Infrastructure Foundations 2020 Certified Associate

Projects

TRYG - Insurance, *Implementing Devops and Azure infrastructure for entire Digital Sales Experience Portal, Denmark*   2020 Oct – present

- Implementing DevSecops and Azure Infrastructure for entire Digital Sales experience Portal.
- My roles and responsibilities as Platform Architect is to make sure the proper infrastructure has been setup along with the DevSecops pipeline.
- Using Terraform, Azure ARM and PowerShell to automate the infrastructure.
- Azure Devops to create the pipeline and release for the DevSecops.
- Implementing Vnet, subnet, Application gateway to receive traffic only from Cloudfare, APIM app manager, AKS cluster ,Application gateway as Ingress controller, Azure monitor and Insights for all app logs using AOP.

Itaú Unibanco,   2018 Oct – 2020 Sep

Unblock IT - A project from the largest bank of LATIN AMERICA, TCS - Brazil ⧉

- Unblok IT is a dynamic project for ITAU to adhere DevOps culture for its entire 490+ squads.
- Participated across 40+ squads to migrate their private cloud to public AWS cloud
- Across 30+ squads to migrate their business from monolithic or SOA based projects to adhere Micro-services API based approach.
- Cordinate multiple squads, along with architect team to adhere enterprise architect, for AWS using it's best practices for utilizing all resources, cost optimizing developer and QA OUs.
- Implemented cost optimized, scalable, fault tolerant and high available infrastructure for various migration.
- Implemented security, encryption, compliance for payment systems.

RIMAC Seguros, *Leading Insurance company in PERU Lima - TCS LIMA*   2018 Jan – 2018 Sep

- Designing and developing for migration of SOA to micro-service API.
- Design of Cloud architectures for customers looking to migrate or develop new PaaS, IaaS, or hybrid solutions utilizing AWS.
- Implemented security using IAM roles, policy
- Used Kafka Producer and Consumer API to push and read the messages from the topics.

BCP(Banco de Crédito del Perú), *A leading bank in Peru, TCS-Lima*   2015 May – 2017 Dec

Part of a Team with a team of architect(s) Responsible for two major projects "One click deploy "and "Cloud first."

Responsible for company's application systems strategy and alignment with DevOps strategy with company's business goals. Ensure that projects do not duplicate functionality or diverge from each other and business and IT strategies.

One click deploy project- architected and migrated all digital assets from 8 monolith systems to a new K8 and OKD architecture. This reduced 40% overall cost to develop, deploy & reaching almost 500 deploy per month in PROD.

Hands on Coding to build REST Micro Services using Spring Cloud, Oracle, JWT, JSON, Spring Config, Spring Security, AOP, Spring Boot, Spring Batch, JPA, HazelCast Cache

Experience in creating alarms and notifications for EC2 instances using Cloud Watch

Built on-premise data pipelines using Kafka and Spark streaming using the feed from API streaming Gateway REST service.

Target Corporation,   2013 Oct – 2015 Apr

Target Corporation is an American retail corporation - TCS Uruguay

- This project is to incrementally re-mediate in current store mobile core applications that run on existing PDAs and LPDAs, with applications that run on new mobile devices such as iPod and Android devices and web portals.
- Customer has prioritized the applications, focusing on most used by the largest group of Team members at store on the areas of different modules aiming one device to support multiple capabilities for team members and to improve team member experience to service the guest.
- Deployed application onto Weblogic, Websphere, alongside with performance tuning.
- Maximized applications' efficiency, data quality, scope, operability, and flexibility.
- Proposed first ever Pipeline for end to end integration in bank using various tools of Openstack,

MEAP - Hy5 Canvas™ and Suite, A *TCS Product - TCS INDIA*   2011 Jan – 2013 Aug

I was working for a TCS tools product Hy5-Canvas™ , which is an eclipse based MEAP.

TCS Hy5 Canvas™ is a full-featured mobile application development platform that helps you design, code, and publish hybrid mobile applications that include middleware services to integrate with your critical backend systems. It can be deployed in the cloud as well as on-premise. TCS Hy5 Canvas™ has three components that take care of every aspect of mobile application development – TCS Hy5 Canvas Studio, middleware services, and client-side runtime components.

- I had the role for the writing MTTs which a code generator techniques developed by TCS. Using this compliers I was writing techniques code for hybrid applications using HTML5, CSS3, JavaScript, jQuery Mobile and responsive web design)
- For native generation, Integrated Phonegap with extensions.
- Web service support for consumption.
- Includes Model to text transform. Support model merging and model versioning.
- Centralized Code generation which includes single environment for life cycle management and multiple target technologies.
- Provides Life cycle Management, Role Based, Component Based and Distributed Application Development environme

Ongoing Challenges

- Transform all the squads (approx 490+) to adopt DEVOPS culture by migrating entire business to public AWS cloud.
- Migration of Mongo DB to AWS Dynamo DB
- Creating a uniform disciple for entire squads to use AWS services for cost optimization for developers and testing team.
- Implementing Helm 3 package manager
- Making team aware of all tools and process to implement DevSecops culture.

Education

Bachelor of Technology (Computer Science & Engineering),   2006 Aug – 2010 Jun
MCKV Institute of Engineering   Howrah, India

Languages

- English
- Spanish
- Portuguese
- Hindi