



HARIPRASAD SUNDARESAN

CLOUD ARCHITECT | 4X® GCP

PROFILE

- Highly dedicated professional with 14+ years of full stack experience in Banking.
- Expertise in Application Development, Application Modernisation & Infrastructure Automation of Cloud Native Applications & Platforms in various roles.
- Cloud Product /Platform Team (COE Team) of Google Cloud for Large Investment bank
- Expertise in Data Platform & Data Migration as part of Cloud Data COE Team for large Retail Bank.

SKILLS

Certifications (4 x GCP)

- GCP Professional Cloud Developer
- GCP Professional Cloud Architect
- GCP Professional Cloud Devops Engineer
- GCP Associate Cloud Engineer

Cloud Skills

- Hybrid Cloud : Anthos , Anthos Cloud Run, Anthos Config Sync, Anthos Policy Controller & Anthos Service Mesh
- Compute : GKE & Compute Engine
- Serverless : Cloud Functions & Run
- Database : Cloud SQL (My SQL & Postgres SQL) , Datastore
- Data Warehouse : Cloud Storage , BigQuery, BigTable, Pub-Sub, DataFlow, Dataproc and Composer
- Networking : Shared VPC, Firewalls, Subnets, NEG, Load Balancer & DNS

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CAREER HISTORY

Cloud Architect (GCP) | BJSS | Oct 2022 - Present

- Architected , Re-design & development of GCP Landing Zone Accelerator (Internal)
- Design/Development of Static Cloud Accelerators for small business (Internal)
- Analysis/ Early Assessment of Enterprise Data Warehouse Hub Migration to GCP Dataproc Cluster (Cloud Data COE)
- Design & Architect Cloud Dataproc Ephemeral Clusters creation utilised by applicaion teams for their Hadoop/spark jobs

Cloud Architect (GCP)

Publicis Sapient / Global Bank | Jan - Sep 2022

- Architecting & Developing common GCP Cloud Blueprints as part of central team to be consumed by application teams.
- Contribute to Weekly Cloud Design Review Architect community and Application Design Working Group where application teams across the global bring up their GCP Migration / GCP Design
- Designed and developed Application Blueprints involving GKE, Postgres SQL, IAM, Anthos Service Mesh, Cloud Monitoring, Cloud Logging, Secret Manager
- Developed reference application (React JS/Node JS/ Mongo DB) to be used to support reference implement (Blueprint) involving GKE, Mongo DB, IAM, Anthos Service Mesh, Cloud Monitoring, Cloud Logging, Secret Manager, etc
- Designed/Developed Packer Image factory blueprint which builds customised GCP VM Images to be consumed by application teams
- Enablement Anthos Config Management (Config Sync) gitops style framework to rollout platform updates across all GKE Clusters.
- Enabling GPU VM Image for Machine Learning applications. Developed python test scripts to automate GPU VM Testing using creating/deleting GCP using GCP API
- Authored GKE Terraform module to enable GPU supporting GKE Clusters
- Landing Zone Plugin enhancements involves GCP Landing Zone , GitHub bootstrap to be consumed by application teams involved Git workflow and Terraform Enterprise
- Adoption of Automated Compliance Test Automation using Chef InSpec in the Pipeline enhancements

SKILLS

- Event Arc , Cloud Scheduler, Workflow, Cloud Tasks
- CI/CD : Cloud Native CI/CD
- Cloud Ops : Cloud Logging & Monitoring Suite (GCP), Event Solutions from Audit Logs
- Security : KMS, Secret Manager , Organisation Policy, IAM Policy , Binary Auth

Other Cloud

- AWS - Medium
- Azure - Medium
- Private Cloud : IBM Private Cloud

Programming Languages

- Javascript, ES6 , HTML & CSS
- Java, XML & YAML
- Python
- SQL
- Ruby (Chef In-spec test suites)

Infrastructure Development

- Terraform / Terraform Enterprise
- Packer
- Ansible
- Terraform Kitchen
- Chef InSpec

Devops/Gitops

- Git Workflow, GitLab CI, Jenkins, Nexus, Artifactory, Sonarqube, Aquasec, Vault & IBM UrbanCode.
- Docker, Minikube, Kubernetes, Nginx, Helm Charts, Kustomise, Flux CD

Javascript Frameworks & CSS

- Node JS & Express JS
- React JS
- Bootstrap CSS

J2EE Frameworks

- Spring Boot & Micro-services
- Struts, Spring MVC, JSF

CAREER HISTORY

- Developed reference application (React JS/Java (Spring Boot)/ Oracle Cloud) prototypes to be later evolved into cloud blueprints involving GKE & Oracle Cloud
- Developed Infrastructure CI/CD pipeline using GITLAB CI for internal application in GCP Platform using Workload Identity
- Setup Kubernetes resources for Prisma Defender Deployments in GKE Cluster through CRD, Anthos Config Sync & Kustomise
- Enhancement to SDLC docker images baking process through Artifactory & XRay.

Senior Cloud Engineer

TCS/ UK Bank | Jan 2019 - Dec 2021

- Collaborating with senior architects in shaping cloud migration plan as phase wise journey to produce robust cloud hosting solution in Google Cloud.
- Represented the team in wider engineering forum, design submission forums and wider architect forums.
- Owning end to end design, development, cloud solution for 3 tiered greenfield application (React JS, Node JS, MYSQL) to GCP using the Google GKE Cluster, Cloud SQL Proxy, Cloud SQL, Cloud Storage, VPC, Secret Manager, Cloud KMS, IAM, Service Accounts, Nginx Traffic Management, Global Load Balancer.
- Designed Devops migration to GitOps CI/CD pipeline with git action with Cloud Build Trigger, GCP Container Registry, GKE & Flux CD
- Designed Case studies solutions as serverless architecture using GCP's product such as Cloud Run, Cloud Firebase, Serverless NEG, Cloud Build, Cloud Container Registry for image sharing application.
- SRE solution design using Cloud Build, Cloud Code, Container Registry, Artefact Registry, Cloud logging , Monitoring and Terraform script for Google MySQL & GKE modules
- Setup application containerisation and orchestration using Docker, Docker-compose, Kubernetes & Helm Charts.
- Setting up performance monitoring Locust GKE cluster to support performance testing from on-prem servers.
- Built CI/CD Devops pipeline using GIT, Jenkins, SonarQube, Nexus, Nexus IQ, Vault, AquaSec and deploying to IBM Private Cloud.
- Recommended and adopted industry best practices in setting up the CI/CD pipelines.
- Designed and built demonstrable prototypes in Google App Engine, Google Compute Engine, GKE, Cloud Run, Cloud Functions, Google Workflow, GCP Datastore, Cloud Storage, Cloud SQL, Cloud Postgres SQL, Cloud Spanner, BigQuery, BigTable, Dataflow data pipelines to support pre-sales
- Prototype to extract and clean data (python app) from SQL Source to be used in ML Models within Azure ML Workspace.
- Led and supported performance testing and fine-tuning in application, database and infrastructure tiers using Dynatrace monitoring (on-prem)

SKILLS

SQL Databases

- SQL Database such as Oracle, MYSQL, Postgres DB & SQL Server
- No SQL (Mongo DB & Cloud Datastore, Big Table)
- SSIS, SSRS, SAP Business Objects

Build & Package Frameworks

- ANT, Maven, Gradle
- NPM & Webpack

Communication Protocols

- HTTP/HTTPS, TCP , SOAP & REST API, IBM MQ (JMS), Websockets & Socket IO

Security

- Cloud IAM & Cloud Organisation Policy, Binary Auth, Attestation, RBAC Policies
- Sentinel Policies (Terraform), Prisma Defender Policies
- OWASP , CORS , CSP Policies
- Secure CI/CD Methodologies

Performance Engineering

- JVM Finetuning
- Locust & Dynatrace Monitoring

ACADEMIC HISTORY

Pondicherry University (2005 - 2009)

Batchelor of Technology - Civil Engineering

CAREER HISTORY

Senior FullStack Engineer

TCS/ UK Bank | Mar 2017 - Jan 2019

- Led RFP discussions to success, owned the smooth transition from different vendor, ensuring steady state of transition with no impact to the service.
- Application development in MERN Stack in agile delivery across all tiers of applications
- Built CI/CD Devops pipelines for 3 tiers React JS, NodeJS Backend and MYSQL, by fully containerising and deploying through Jenkins.
- TDD & Integration Test Cases with Jest & SuperTest for backend Node JS application.
- SQL design and development for Node-MYSQL Application.
- Bug fixes in React JS Application
- Mentored, supported junior colleagues and provided constructive feedback to improve themselves and bring the best of them to the organisation.
- Participated in wider design forums across the bank to adopt emerging technologies to the team.

Senior Developer

TCS/ UK Bank | Mar 2013 - Feb 2017

- Critical group release projects including regulatory changes across a number of line of business inclusive of Savings Accounts, Current Accounts, Loans, Home Solutions & Credit Card.
- Early involvement with business to help shape up requirements and requirement traceability matrix.
- Reviewed and contributed to study & design deliverables, code review, defect fixes in build phases and ensure Zero or minimal code defect across the testing phase.
- Database design for RDMBS in Oracle SQL for J2EE application.
- Application development (Java/J2EE) and API component in HTTPS/SOAP to backend broker applications.
- Responsibility of owning the technical delivery , guiding the team technically and highlighting appropriate risks to business in stakeholder meetings.
- Led the team in implementation, warranty support, drive incident calls by representing the team

Software Engineer

TCS/ Large UK Bank | Dec 2009 - Feb 2013

- Application development in JSF & Struts.
 - Develop SQL reference data static content scripts in Oracle Database
 - Developed and unit tested UI Screens, page navigation in JSF & Javascript
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