



HARIPRASAD SUNDARESAN

GCP ARCHITECT

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PROFILE

- Highly dedicated and performance-driven professional with 12+ years of full stack expertise in Banking Sector
- 5+ yrs experience in Google Cloud Platform specialising in Infrastructure and Application modernisations
- Hands-on practitioner and follow agile lifecycle and methodologies.
- Passionate about Google Cloud and I'm proud to be first person as GCP Professional Cloud Developer in a large company of 500K+ Employees.

SKILLS

Programming Languages

- Javascript, ES6, HTML & CSS
- Java, XML & YAML
- Python
- SQL
- Ruby (Basic)

Infrastructure Development

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

CI-CD

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

CAREER HISTORY

GCP Architect

Publicis Sapient / Global Investment Bank | Feb 2022 - Present

- Architected and developed re-usable Cloud Blueprints to be consumed by application teams.
- Contributed to weekly cloud design review architect forum and application design working group where application teams across the globe discuss their GCP Migration / GCP Design approach.
- Developed Application Blueprints involving GKE, Postgres SQL, IAM, Anthos Service Mesh, Cloud Monitoring, Cloud Logging, Secret Manager
- Architected and developed Anthos Config Management (Config Sync) enablement to rollout platform updates across all GKE Clusters.
- Developed reference application (React JS/Node JS/ Mongo DB) to support reference implementation (Blueprint) involving GKE, Mongo DB, IAM, Anthos Service Mesh, Cloud Monitoring, Cloud Logging, Secret Manager
- Setup Prisma Defender deployments across GKE Clusters using Helm, Kustomise, Anthos Config Sync to enforce central policies.
- Developed GPU GCE VM Image to be consumed by Machine Learning applications using Packer/Bash/Python.
- Authored GKE Terraform module to enable GPU supporting GKE Clusters.
- Developed reference application (React JS/Java (Spring Boot)/ Oracle Cloud) prototypes to be later evolved into cloud blueprints involving GKE & Oracle Cloud
- Participated in a 48-hour Hackthon Event to build Alumni Portal. Built 3 Tier Application (React JS/Node JS/ MySQL), CI-CD (Cloud Build) and GCP Infrastructure (Terraform)

Senior Cloud Engineer - GCP

TCS/ UK Bank | Jan 2018 - Jan 2022 (4 yrs)

- Landing Zone Plugin enhancements to build re-usable GitHub bootstrap consumed by application teams using Git workflow and Terraform Enterprise.
- Represented the team in wider engineering forum, design submission forums and wider architect forums.
- Setup deployments/orchestration for fault monitoring application in GKE using Kubernetes & Helm Charts.

SKILLS

Javascript Frameworks & CSS

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

J2EE Frameworks

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

SQL Experience

- Oracle
- MYSQL
- Postgres DB
- SQL Server
- SQL Jobs, SSIS & SSRS Packages
SAP Business Objects
- Mongo DB

Build & Package Frameworks

- ANT, Maven, Gradle
- NPM & Webpack

Cloud Experience

- GCP Commercial experience in
GKE, Anthos, GCP , Cloud SQL (My
SQL & Postgres SQL) , GCE, VPC,
Subnet & Firewall, Secret Manager,
Cloud InterConnect, Cloud Run,
Cloud Functions , BigQuery,
Dataproc, Container Registry,
Cloud Storage, Pub-Sub, Cloud
Logging, Cloud Monitoring
- GCP Prototypes in App Engine,
Cloud Build, GCP L7 Load Balancer,
L4 Load Balancer, GCE Managed
Instance Group, Cloud Spanner, Big
Table, Firestore, NLP

Communication Protocols

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

CAREER HISTORY

- Designed/Developed VM Image Factory process (Packer) to build customised GCP VM Images consumed by application teams.
- Developed Infrastructure CI/CD pipeline using GITLAB CI for internal application hosted GCP GKE using Workload Identity.
- Developed automated framework for SDLC Docker Images process to bring in docker images into the bank infrastructure using Artifactory and Xray.
- Led team of 8 to develop end to end design, development, cloud modernisation 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.
- Implemented organisation policy guard-rails using InSpec for GCP Cloud SQL (MySQL) Services.
- Built CI/CD Devops pipeline using GIT, Jenkins, SonarQube, Nexus, Nexus IQ, Vault, AquaSec and deploying to IBM Private Cloud.
- Setting up performance monitoring Locust GKE cluster to support performance testing from on-prem servers.
- 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)
- Designed and developed case studies solutions in serverless architecture using GCP's product such as Cloud Run, Cloud Firebase, Serverless NEG, Cloud Build, Cloud Container Registry for image sharing to support cloud capability for pre-sales

Senior FullStack Engineer

TCS/ UK Bank | Mar 2016 - Jan 2018 (2 yrs)

- 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.

SKILLS

Security Concepts

- OWASP, SSL, TLS, SHA256, Service Accounts, Password encryptions, CORS , Cache Protection & CSP Policies (Basic), PCI & Salt Keys

Tools/Servers

- IBM WAS 8.5, Liberty, JBOSS, Apache Tomcat, Eclipse, VSCode, Atom, Visual Studio, PyCharm, Oracle Toad, Oracle SQL Developer, SQL Developer, SOAP UI, PostMan, JMeter, Locust & Dynatrace

ACHIEVEMENTS

- ★ Consecutive Star of Month (4 on row)
- ★ Technical Excellence Awards
- ★ Best Team Awards
- ★ Hackathon Winner (Account Level)

ACADEMIC HISTORY

Pondicherry University (2005 - 2009)

Batchelor of Technology - Engineering

CAREER HISTORY

- 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 2016 (3 yrs)

- 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 (3yrs)

- 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