

RAHUL BALI

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SUMMARY

Google Cloud Certified Professional Cloud Architect and full-stack engineer with **7+ years** delivering high-impact systems at scale. At Google, shipped a GenAI platform, drove **110% cloud delivery efficiency gains**, and built automation tooling responsible for **\$6M+ in incremental pipeline**. Expert in **Go, TypeScript (Angular)**, and **Kubernetes** — combining deep engineering with direct business outcomes.

EXPERIENCE

Strategic Cloud Engineer

Google

May 2021 – Present

Gurugram, Haryana, India

- Architected and shipped a **GenAI agent platform** from 0 to 1 — providing centralized management, tracking, and deployment for 50+ AI agents, reducing agent deployment time by **80%** and processing **100K+ events/day**.
- Built a **Cloud Migration Business Case Engine** serving the Google Cloud pre-sales team — automating workload analysis and ROI projection, cutting client proposal turnaround from **3 weeks to 4 hours** and attributed to **\$6M+ in new cloud pipeline** across 200+ enterprise accounts.
- Developed an executive **KPI dashboard** and delivery governance platform adopted by **1,200+ engineers and 160+ managers** across Google Cloud; drove a measurable **7% uplift** in on-time project delivery.
- Engineered an internal full-stack platform in **Go + TypeScript (Angular)** that unified cloud delivery workflows, resulting in a **110% increase in business delivery efficiency** and **\$2.4M in avoided operational costs**.
- Designed a real-time **data pipeline** ingesting 2M+ delivery records/day — powering live insights across customer behavior, staffing operations, and client project health for 500+ enterprise accounts.
- Contributed to **Borg** (Google's core infrastructure scheduler); awarded **TypeScript Readability** in recognition of elite code quality across the org.

Software Engineer II

Hewlett Packard Enterprise

January 2021 – April 2021

Bangalore, India

- Led deployment of a production **Docker Harbor registry** serving 8+ engineering teams as a centralized image store, reducing image fetch latency by **60%**.
- Managed **Kubernetes and EFK observability stack** for Storage Products MLOps infrastructure, supporting 99.9% uptime across 15+ microservices.

Senior Analyst

HCL Technologies

August 2018 – December 2020

Noida, India

- Led a cloud automation POC for **Unilever** that entered full production, slashing server provisioning time from **45 days to 45 minutes** and saving an estimated **\$1.8M/year** in operational overhead.
- Automated workflows across **8 technology teams** using PowerShell and vRealize Orchestrator, eliminating **3,000+ manual tickets/month** and cutting mean resolution time by **72%**.
- Designed SOAP/REST API integrations for VMware Orchestrator; architected HA failover cluster for vRealize with MSSQL, achieving **zero unplanned downtime** over 18 months.

PROJECTS

Composable Agent Builder | Go, TypeScript, Angular, Vertex AI, A2A Protocol

Google

- Self-service platform enabling users to author AI agents by writing natural-language instructions and composing them with existing agents via **Google's A2A protocol** — each subagent exposes a typed **Agent Card** declaring its capabilities, inputs, and outputs, forming a structured **multi-agent mesh** with full tool connectivity.
- Managed complete agent lifecycle — from authoring, capability scoping, and permission assignment through environment promotion (dev → staging → prod) to graceful dissolution; reduced agent onboarding from **2 weeks to under 1 day** with **zero-trust access controls** enforced across 50+ live agents.

GenAI Agent Catalog | Go, TypeScript, Angular, Vertex AI, GCP

Google

- Centralized discovery platform for AI agents with pre-built tool bindings (APIs, databases, internal systems); aggregated **80+ real-world use-cases** from teams across Google Cloud and accelerated org-wide agent adoption by **3x** within 6 months of launch.

Delivery Governance Platform | Borg, Spanner, Go, TypeScript, Protocol Buffers

Google

- Week-wise project delivery tracking system adopted by **1,200+ engineers and managers**; generates **300+ automated reports/month** and cuts analysis time from **1 week to 15 minutes**.

Cloud Migration Business Case Engine | *Borg, GCP, Spanner, Python, Protocol Buffers*

Google

- Pre-sales platform ingesting customer workload and datacenter metadata to auto-generate **pricing models, ROI projections, and migration impact reports**; deployed across **200+** enterprise migration engagements to accelerate GCP adoption decisions.

TECHNICAL SKILLS

Languages: Go, TypeScript, Python, SQL, Java, Bash, PowerShell

Frontend: Angular, RxJS, NgRx, JavaScript, HTML/CSS

Backend & APIs: gRPC, REST, GraphQL, Microservices, Protocol Buffers, WebSockets

AI & ML: Vertex AI, GenAI Agent Frameworks, LLM Integration, MLOps, Recommender Systems

Cloud & DevOps: GCP (GKE, Spanner, Pub/Sub, Cloud Run, BigQuery), AWS (EC2, VPC, ECS), Kubernetes, Docker, Terraform, CI/CD, Helm

Observability & Data: Prometheus, Grafana, EFK Stack, Apache Kafka, Real-Time Pipelines

Databases: Spanner, PostgreSQL, MongoDB, MSSQL

Practices: System Design, Distributed Systems, Zero-Trust Security, Agile/Scrum, Technical Leadership

CERTIFICATIONS

Google Cloud Certified: Professional Cloud Architect

EDUCATION

Punjab Engineering College

Master of Technology (M.Tech) – Computer Science and Engineering

Chandigarh, India

2016 – 2018

Punjab University

Bachelor of Engineering (B.E.) – Computer Science

Chandigarh, India

2011 – 2015