

Raghu Vijaykumar | Staff Software Engineer | Cloud, Distributed Systems & AI/ML Architect

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Software Engineer with 9 years of experience building scalable cloud, distributed systems, and data platforms. Proven track record in designing resilient architectures, optimizing performance, and driving AI/ML-powered innovation. Passionate about solving complex problems with clean, impactful solutions.

Skills

🛠 Primary Skills

- **Programming:** Java (Spring ecosystem, test & build frameworks), Python (Flask, Streamlit, Poetry), Flutter (Android & Firebase) – backend-centric development with focus on APIs, services, and system integrations across web and mobile platforms.
- **Generative AI:** Agentic applications using LangChain / LangGraph with GCP Vertex AI and OCI Gen AI for multimodal workflows.
- **Cloud Platforms:** GCP / AWS / OCI – hands-on experience designing event-driven, data processing, containerized, and serverless architectures, along with infrastructure provisioning, networking setup, and application deployments using core cloud services.
- **Data Engineering:** Apache Beam (Dataflow), Apache Nifi, Kinesis, Datastream, GoldenGate – building scalable data ingestion and transformation pipelines.
- **Databases:** SQL (MySQL, PostgreSQL, OracleDB), NoSQL (DynamoDB, Firestore), Cache (Redis), Data Warehousing (BigQuery, Athena, Glue).
- **Monitoring & Logging:** Grafana, Metrics – centralized observability and performance tracking.
- **Architecture:** System Design, Distributed Systems, Data Structures & Algorithms.

⚡ Secondary Skills

- **DevOps:** Docker, Kubernetes, Jenkins, Helm, Terraform, Vault – CI/CD automation, container orchestration, and infrastructure as code.
- **Security:** Data Encryption, Threat Modeling, OWASP Principles, Static and Dynamic Testing.
- **Networking:** VPCs, NATs, Load Balancers, DNS, Gateways – secure and scalable network architectures.

📁 Certificates available on [GitHub](#)

Personal Projects

- 📚 [Paper To Reel](#) - Developing an end-to-end automated pipeline that transforms comic books into short storytelling videos. Utilizing OCR tools for text extraction, LangGraph & LLMs for context processing, text-to-speech for narration, and video generation tools to create dynamic visual storytelling. Samples [here](#).
- ✒ [My Blog](#) - Created a personal knowledge-sharing platform using Hugo and hosted it via GitHub Pages; published over 5 detailed posts addressing complex programming challenges.

Work Experience

Oracle - (OHAI)

Bangalore

OHAI leverages AI and Oracle Cloud Infrastructure (OCI) to transform healthcare with data-driven insights and innovative patient care solutions. Worked in a Life Cycle Management team to deliver managed PAAS for Healthcare solutions.

Staff Software Engineer - IC4

Feb 2025 – Present

- Partnered with cross-functional teams of up to 8 engineers to deliver multiple Oracle product initiatives on schedule and with strong technical quality.
- Utilized OCI Gen AI, LangChain, and JIRA APIs to automate error analysis from parquet files and auto-create JIRA tickets, transforming a 6-hour manual process into a 10-minute automated one, yielding 720+ hours of annual productivity gains.
- Automated provisioning and personalization of 1,000+ hospital environments on OCI, covering financial, clinical, ambulatory, semantic data systems and payment improving readiness speed and ensuring cross-system consistency.
- Developed and deployed a suite of cross-language CLI automation tools using Spring Shell (Java), GraalVM, Python (PyInstaller), and PicoCLI to streamline enterprise configuration, JIRA/PR automation, and proprietary system operations — reducing execution times by up to 90% and cutting certain processes from days to under 15 minutes, significantly accelerating tenant onboarding and operational efficiency.
- Contributed to architecture and parts of automation for real-time replication using GoldenGate, OCI Streaming, Oracle DBs; handled 100 TB datasets, cut onboarding time ~50%, enabled parallel multi-client deployments.
- Contributed to design and development of Artifact Lifecycle Management System; centralized cataloging, certified releases, multi-region promotions; reduced errors, removed redundancy, and prepared for generalized deployment patterns.

Equifax

Remote

Equifax is a leading global information services company that provides credit reporting, risk management, and fraud detection solutions. Worked in a team that is responsible for Enterprise Data Analytics.

Lead Software Engineer - IC3

Jan 2023 – Jan 2025

- Led platform solutions for 4 products, ensuring seamless integration and collaboration across enterprise systems, billing and credit reporting.

- Built chatbot & SQL agent using Streamlit, MemoryStore (Redis) and LLMs (Gemini, Claude, Llama), processing 10K daily queries for Big Query insights.
- Improved system performance 5x by migrating from DynamoDB to Kinesis Streams on private endpoints, eliminating VPN contention.
- Implemented comprehensive security baselines for 4 key GCP services (Datastream, Dataflow Prime, Cloud Run, Workbench) with STRIDE threat modeling, high availability, and disaster recovery plans.
- Facilitated ingestion by replication using Datastream and Terraform for Oracle to Big Query/Cloud Storage, reducing ingestion time by 90%.

Senior Software Engineer - IC2

May 2022 – Jan 2023

- Engineered a multi-cloud infrastructure (GCP-AWS) supporting \$10 Million/day revenue, processing 100M/day transactions with HA & DR.
- Boosted processing efficiency by 5x through partitioned chunk-oriented processing of Spring Batch file export jobs on Kubernetes Engine.
- Established a weekly release cadence, lessened change tickets by 90%, and integrated security and static scans into a single pipeline.
- Streamlined vulnerability management by enforcing stricter controls over package repositories, enhancing overall security posture by 20%.
- Reduced QA team effort by 80%, implementing automated regression testing with Jenkins and Python, compiling test scenarios performance reports.

Boeing

Bengaluru, India

Boeing is a leading aerospace company and manufacturer of commercial jetliners, defense, space and security systems. Worked in a team that processes Flight data from various airline operators.

Senior Software Engineer - IC2

May 2021 – May 2022

- Consolidated 10 services into a unified deployment stack using Jenkins, Docker, Kubernetes, and Helm, reducing deployment time by 60%.
- Standardized metrics and health checks across 10 microservices to streamline operations. Automated vulnerability scanning with Aqua.
- Integrated comprehensive API automation testing into jenkins pipeline using Newman CLI, reducing manual sanity checks by 90%.
- Reduced BigQuery storage costs by 80% through efficient normalization techniques and optimization of timestamp range storage.
- Collaborated with a military data processing team to setup a OpenShift cluster, achieving full ITAR compliance through teamwork and communication. Accelerated time to market by 2 months.

Software Engineer - IC1

June 2018 – May 2021

- Optimized Apache Beam pipelines on Dataflow, processing 500GB flight data per day, showcasing problem-solving and analytical capabilities.
- Developed a data ingestion layer with Apache Nifi on GKE, supporting 40 airline operators with multiple source connectors.
- Conducted sentiment analysis on 10K+ Glassdoor reviews with web-scraping and nltk, enhancing new hire satisfaction at Bengaluru office.
- Awarded over 5 times for outstanding performance, demonstrating strong leadership and commitment to excellence.

Tayana

Bengaluru, India

Tayana is a leading provider of telecom solutions and services. Worked in a team that provides telecome solutions like charging gateway, roaming and loyalty programs.

Software Engineer

June 2016 – June 2018

- Achieved 1M TPS with high availability across a 4-VM cluster by benchmarking MySQL NDB in-memory data grid.
- Engineered charging protocol REST APIs via JNI interface, achieving cross-communication between Java and C++ with 1000 TPS.
- Performed tests for GPRS tunneling protocol, focusing on high throughput of about 1000 TPS and enabling roaming functionality.
- Contributed to the development of 5 telecom products, achieving 100% compliance with protocol specifications for subscriber operations, loyalty programs, and charging functions.

Education

Visvesvaraya Technological University

June 2012 – May 2016

Bachelor of Engineering, Electronics & Communication

Mysuru, Karnataka, India

- Project: LDPC Codes for Near-Earth Space communication programmed using HDL, at ISRO Satellite Centre Bengaluru.
- Internship: BSNL EETP program on telecom equipment spanning over 6 months with three levels of certification.