Sanjay Gandhi

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Summary

Senior Software Engineer and Tech Lead with **6+ years** at Oracle, Google, and Amazon. Senior Bar Raiser with **30+ hires**. Led **5 engineers** to build a cloud-native medical record output platform from **0** to **1**. Experience with **AI/ML**, including **generative AI, RAG, and Agentic AI**.

Work Experience

Oracle
Apr 2024 - Present

*Senior Member of Technical Staff (SDE III) | Promoted to Tech Lead (Oct **2025**)* — *Bengaluru (Remote)*

- Built the India Clinical Reporting team from scratch and now lead **8 engineers** across **3 products**: MRO Gen2, XR Gen1, and Dex Gen1.
- Architected a **3-lane** asynchronous platform capable of handling **10M requests per day** and bursts of **1M requests**. Routed $\sim$**1%** of workloads exceeding **10 minutes** or **1 GB** of output to a dedicated lane, maintaining **p80** $<$ **3 s**, **p90** $\leq$ **1 min**, and **p99** $\leq$ **10 min** SLAs with **3 ms/page** report generation. Migrated traffic from MRO v1 to v2 without downtime.
- Built MRO v1 as a cloud-native POC on OCI to modernize legacy Gen1 Clinical Reporting, drove adoption across multiple concept teams, and re-architected it into MRO v2 with **7** Java/Micronaut microservices and a React UI to handle **10**$\times$ the Gen1 load.
- Own MRO Gen2's technical architecture, strategy, delivery, and production readiness. Defined and delivered a **1-year** roadmap. Planned and unblocked work for **5–8 engineers**. Delivered **4** successful releases (**2** quarterly, followed by **2** bimonthly) and increased delivery throughput by **100%** over **10 months**, measured by completed Jira story points, through execution improvements and **AI** adoption.
- Delivered a cloud-native report generation platform producing HTML and PDF reports for **30+ clinical concepts** across **16+** healthcare organizations in production. Onboarded **25+ cross-functional teams** to MRO, reducing onboarding time from **2 weeks** to under **1 week** through **AI** SKILLS, documentation, and partial automation.
- Coached the team on on-call incident response and served as the escalation owner for critical production issues. Restored $\sim$**1,000-page** reports to the end-to-end latency SLA, reduced heap usage by **40%**, and cut report generation time by **25%**.
- Proposed **AI-powered** template builder and prompt-based report generation initiatives, built POCs, and aligned **4 product managers** to advance the ideas.
- Changed a partner team's operating model to increase delivery velocity by **30%** and coached engineers across teams on **AI** adoption.
- Contributed to **30+ hires**, conducting **150+ total interviews** across **Bar Raiser** (**50%**), coding and screening (**40%**), and design (**10%**) rounds. Served as a mentor and judge at OraHacks, an Oracle-wide hackathon, evaluating **12 teams** and their **AI** projects and guiding prototypes toward production readiness.
- Mentored **3 engineers** to take ownership of individual components: **1 UI** and **2 backend services**.

Google
Sep 2021 - Feb 2024

Software Engineer II - Google Search — *Bengaluru*

- Developed Exam OSRPs and the interactive Exam Quiz for **100M+ educational users** on Google Search, serving **1B+ queries per day**. Launched the localized Periodic Table in Hindi, Tamil, and Telugu and designed a scalable Language API to extend Indic-language access across lower-tier cities.
- Improved OSRP triggering for **40%** of education queries through the diOSRP migration, shifting Search query understanding from an entity-driven to an intent-driven architecture and impacting **0.05%** of Search traffic.
- Improved early Bard **LLM** responses through training and evaluation. Developed Search Features in Google's monorepo (**2B+ lines**, **20M+ files**) using C++, Java, Python, Go, gRPC, Protocol Buffers, Blaze, Ant, Boq, Guice, and Spanner. Analyzed educational OSRP triggering by running evaluations on **50K+ queries**.

Amazon
Jul 2020 - Aug 2021

Software Development Engineer — *Hyderabad*

- Engineered duplicate-detection and anomaly-detection systems for **100K+ invoices daily**. Developed APIs, microservices, dashboards, infrastructure, and CI/CD using Java, Kotlin, TypeScript, Python, Elasticsearch, DynamoDB, Redshift, Coral, Smithy, Ruby on Rails, and AWS CDK. Handled **24-hour** on-call support.
- Implemented **3 anomaly-detection rules** using statistical analysis and **Machine Learning** (Isolation Forest), detecting over **$100M** in invoice anomaly value within the **1st month**.
- Shortened anomaly reporting time from **24 hours** to **~5 minutes** by migrating from a daily cron job to an event-driven workflow for invoice creation and updates in the cross-team Gandalf-Veritas integration project.

Skills

Languages	Python, Java, C++, TypeScript
Backend	Distributed Systems, System Design, Kafka, gRPC
Data & Search	MySQL, PostgreSQL, Spanner, Redis, DynamoDB, Elasticsearch, Knowledge Graphs, Amazon S3, Azure Blob Storage, Semantic and Vector Search
AI & ML	Generative AI, LLMs, RAG, AI Agents, LangChain, LangGraph, Machine Learning, Deep Learning
Cloud & Infra	AWS, OCI, Azure, Docker, Kubernetes, Terraform, CI/CD, Jenkins, Grafana

Achievements

- OCI: Architect Associate (2026), Developer Professional (2025), Generative AI Professional (2025), AI Foundations Associate (2024).
- CodeChef Certified Data Structures and Algorithms Programme (**CCDSAP, Advanced**).
- Qualified for the **ACM-ICPC** Asia Regionals, finishing **85th** at the Gwalior-Pune Regional.