

# Ajaykumar Yadav

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## EXPERIENCE

**Software Engineer Apprentice** | Google | Bangalore, India 04/2025 – 03/2026

- Architected, documented, and engineered customer-centric, robust concurrent database adapters for Google's open-source **GenAI MCP Toolbox** (13k+ stars) using **Golang**, achieving **95%+** code test coverage.
- Spearheaded an evaluation framework for GenAI MCP tools, driving standards around code quality while reducing engineering overhead by **90%** through automated Gemini CLI workflows.
- Engineered robust **AlloyDB Omni** CI/CD workflows within a distributed systems architecture, cutting flaky failures by **40%** across 4 versions and multiple Linux distributions (UBI/Debian).
- Automated high-availability and backup qualification for AlloyDB Omni via Rapid Pipeline, saving **300+ hours/release** and resolving high-priority release blockers including pgBackRest, Patroni, and Barman.
- Contributed to building a developer trial API for AlloyDB by implementing **JSON-RPC** methods and collaborated on 3 full-stack reference prototypes using **Google ADK and Toolbox SDK** to accelerate enterprise onboarding.

**Trainee Software Engineer** | WebMD | Navi Mumbai, India 12/2024 – 03/2025

- Spearheaded migration of internal services from Rancher to **Kubernetes**, tackling complex engineering challenges to achieve **zero-downtime deployment** and improved infrastructure scalability.
- Built a full-stack tool for GenAI pipeline analysis to evaluate CI/CD failures, reducing mean-time-to-resolution for critical incidents by **86%**.
- Integrated YouTrack ticket resolution into VS Code via an **LLM coding agent (Cline)** and **RabbitMQ** for async job handling, increasing developer ticket throughput by **8x**.
- Developed a **RAG-based** Google Chat bot using Cron jobs and internal knowledge bases to auto-answer queries, reducing engineering support load by **40%** through automated semantic document retrieval.
- Optimized internal dashboard frontend by **30%** and increased backend speed by **35%** by removing blocking code in async blocks and introducing a **modularized architecture**.

**Software Engineer (Freelance)** | Pryzmity | Navi Mumbai, India 01/2024 – 06/2024

- Led end-to-end delivery of customer-centric websites for a **film production house** and **industrial factory**, managing the full **SDLC** from discovery to cloud deployment.
- Architected the **technical design and scalability roadmap** for a tutoring institute's mobile application, providing stack selection and security recommendations adopted by their core team.

**Software Developer Intern** | Yuva Home Tutors | Navi Mumbai, India 04/2023 – 10/2023

- Automated onboarding-to-operations sales workflow using **Google Apps Script** and Workspace APIs, reducing manual operational effort by **60%** for a system managing 500+ daily active users.

## TECHNICAL SKILLS

- **Languages:** C++, Python, Java, **Go (Golang)**, JavaScript, SQL, HTML/CSS
- **Backend:** Microservices, API Design, REST, **Spring Boot**, Node.js, FastAPI, RabbitMQ
- **Cloud & DevOps:** GCP, Terraform, **Docker**, **Kubernetes**, Ansible, CI/CD Pipelines, Cloud Build, Git, GitHub
- **Databases:** PostgreSQL, MongoDB, Redis, MySQL
- **AI & ML:** RAG, Agentic AI, MCP, LangChain, **Vertex AI**, Gemini API, Google ADK
- **Fundamentals:** DSA, System Design, Distributed Systems, Software Design, OOPs

## PROJECTS

**RedPen** | FastAPI, Python, PostgreSQL, Vertex AI, Docker, Cloud Run

- Engineered an AI platform to **grade handwritten assessments** and provide grounded chat responses based on uploaded books via **Vertex AI**, reducing teacher workload by **50%**.
- Built a **Vertex AI RAG corpus** for books, eliminating repetitive uploads and cutting token costs by **90%**.

**QLMS** | Java, Spring Boot, React, PostgreSQL, Docker, REST API

- Engineered a full-stack Learning Management System using **Java (Spring Boot) and React**, utilizing Docker Compose for seamless containerized deployment and infrastructure consistency.
- Architected PostgreSQL schemas and Spring Mail integration, increasing speed by **35%** via optimized indexing.

## EDUCATION

• **Bachelor in Computer Science** | SIES College, Navi Mumbai, MH | **CGPA: 9.3/10** 03/2021 – 03/2024

## ACHIEVEMENTS

- Awarded **Apprentice Spotlight** twice among 400+ Google India apprentices for high-impact project contributions.
- Solved **500+ DSA problems** with a Max Rating of **1700** on LeetCode; participated in 70+ contests.
- Won **4 inter-college technical competitions** including Hackathons, Web Design, and Reverse Coding.
- Achieved **1st Rank** in Class 10th and **3rd Rank** in Class 12th, scoring 90% in both.