

AJAY SINGH PARMAR

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PROFESSIONAL SUMMARY

Senior full-stack engineer with 10+ years building scalable, cloud-native systems across AdTech, Hospitality, Healthtech, and Insurtech. I architect backend-heavy systems in Python and Golang on GCP and AWS, combining deep distributed-systems expertise with sharp debugging instincts for complex, high-throughput environments. I bring LLMs and agentic AI into production—integrating large language models, designing RAG pipelines with vector databases, and building tool-using agent workflows—and command the MLOps and inference-serving patterns that ship AI from prototype to reliable service. I lead teams through ambiguity and thrive where AI is reshaping how systems get built.

SKILLS

- **Technical:** Python, Golang, Java Script, TypeScript, SQL, Bash, HTML/CSS
- **Database/Servers:** PostgreSQL, MongoDB, Redis, Bigtable, BigQuery, MySQL, Linux/Unix, NoSQL
- **Web Frameworks:** FastAPI, Gin (Golang), Django, Node, React.js, Tailwind CSS, WebRTC
- **Tools:** JIRA, Git, Docker, Google Cloud Platform, AWS, Apache Kafka, Pub/Sub, Kubernetes, Terraform
- **Architecture & Practices:** REST APIs, Microservices, gRPC, DevOps, TDD, SOLID, SDLC

PROFESSIONAL EXPERIENCE

KPTAC Technologies

May 2025 - Present

Senior Backend Engineer

Dubai, United Arab Emirates

- Own end-to-end backend architecture for a multi-tenant hospitality SaaS platform (Digital eMenu), defining system design, API contracts, and data models across Orders, Payments, Reservations, Restaurant Management, Notifications, and CRM.
- Architect scalable, fault-tolerant microservices handling high-volume restaurant transactions and real-time order flows, with concurrency control and strong consistency guarantees across reservation and payment systems.
- Engineer secure payment integrations with idempotent transaction processing and webhook-based event handling, ensuring reliability under production load.
- Integrate AI/LLM-driven features into the platform—menu recommendations, automated guest insights, and context-aware notifications—building RAG pipelines and LLM API integrations against transactional data.
- Set technical direction for the team—driving architectural decisions, defining engineering standards, and mentoring engineers to raise delivery quality and velocity.
- Partner directly with product, mobile, and frontend teams to translate business workflows into reliable backend systems, serving as the technical anchor across the stack.

Audiomob Limited

February 2023 - May 2025

Senior Software Engineer

Abu Dhabi, United Arab Emirates

- Architected Audiomob's RTB platform from PoC to production, doubling throughput to 2K req/sec and sustaining ~100ms responses for 99% of 10M+ daily auctions through optimized GCP infrastructure (Bigtable, Redis) and custom pacing algorithms.
- Built a gRPC service layer integrating ML models (CTR, LTR, CPI) for real-time ad targeting, cutting inference latency 30% and lifting ROI 25%.
- Engineered low-latency infrastructure with Terraform, sustaining 99.9% uptime at peak load and re-architecting database schemas to halve query latency.
- Redesigned the SSP Developer Dashboard (Svelte 5, Tailwind CSS) to cut user task time 40%, and automated BigQuery pipelines for real-time campaign tracking, reducing reporting lag 70%.
- Owned the full system lifecycle—R&D, infrastructure, CI/CD, and cross-team alignment—ensuring platform performance met business KPIs.

Akamai Technologies

March 2022 - January 2023

Senior Software Engineer

Bangalore, KA, India

- Engineered scalable REST API features for Router Configuration Management System (RCM) using Flask and React.js, handling configurations for 10k+ routers to streamline network operations.
- Spearheaded backend database migration tool development for RCM, transitioning legacy systems to a dynamic environment and reducing configuration time by 30%.

- Orchestrated full-stack workflows (GitHub/Jira/Jenkins) and collaborated with cross-functional teams to enhance network tools, cutting incident resolution time by 25% .

Adcuratio Media Inc.**February 2021 - March 2022***Software Development Engineer II**Bangalore, KA, India*

- Architected an event-driven Multi-Seller Platform using FastAPI with real-time notifications/logging (Kafka), enabling scalable transaction handling.
- Led end-to-end development of core services (Subscriptions/Payments/Reviews) for Folksmedia Streaming (Python), mentoring juniors to boost team output.
- Optimized API performance by 40% by applying SOLID principles and microservices architecture in cloud-native systems; designed DSP backend supporting addressable ads for agencies.

Meddiff Technologies (Now Ramsoft)**March 2019 - January 2021***Software Engineer**Bangalore, KA, India*

- Built a Quality Audit feature for the RIS/PACS server, increasing operational transparency and streamlining radiology workflows.
- Pioneered a Tele-ultrasound web app (Python, Django, React), rapidly delivering remote ultrasound interoperability during COVID-19 to reduce in-person exposure risk, taking it from concept to working POC end to end.
- Automated quality audits and server monitoring across a 50+ machine PACS fleet (Linux/Windows) and modernized the hospital inventory stack, cutting manual workflows 40% and enabling real-time radiology performance tracking.

Infosys Limited**December 2016 - March 2019***Senior System Engineer**Mangalore, KA, India*

- Implemented a critical policy-change feature for Universal Life and Whole Life insurance underwriting, enabling accurate handling of mid-term policy adjustments.
- Restructured a core correspondence application with SOLID-principled Python backend code, improving performance and maintainability and boosting processing throughput by 20%.
- Developed high-performance mainframe tools in REXX and PL/1 for CRUD operations on a DB2 database, improving reliability and reducing processing time.

EDUCATION

Jabalpur Engineering College**July 2012 - June 2016***Bachelor's, Information Technology**GPA: 8.0***INTERESTS**

Exploring cultures through travel, Photography, Building Automation Tools, Badminton, Cricket