

AYUSH PANDEY

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SUMMARY

Software Engineer with production experience shipping full-stack, AI-assisted, and data-infrastructure systems used at scale. Comfortable owning features end-to-end across distributed, async teams — architecture, code review, CI/CD, and on-call. Backend depth in Go, Python/FastAPI, and Node.js, plus LLM gateways, AI/RAG, Kafka, and cloud data platforms (BigQuery, dbt, Cube). Open-source contributor to Alibaba open-code-review.

EXPERIENCE

SDE-1 (Software Development Engineer) — Kalvium Private Limited Jul 2026 – Present
Bangalore, India (Remote-capable, distributed team)

- **LLM AI Gateway:** Built and run a **LiteLLM** gateway in the company monorepo, routing **10,000+ LLM calls/day** across **65+ AI services**.
- **Onboarding Engine:** Scaled a fault-tolerant, queue-driven onboarding job to handle **1,000+ accounts at once**, coordinating **4 services** — automatic role assignment, **Keycloak** member creation, email triggers — with suspension controls.
- **Analytics & Data Marts:** Own BigQuery datastream pipelines and dbt marts behind business dashboards; introduced **Cube** as the semantic layer for analytics platform v2 and am optimizing pipelines end-to-end.
- **Admissions Action Center & Batch Processing:** Own end-to-end delivery for a system serving a large active user base, plus batch pipelines processing 10,000+ records/day with production troubleshooting.
- **Code Review & Architecture:** Review 15+ pull requests weekly, shaping architecture and enforcing code quality across the team.

Digital Solutions Architect Intern — Kalvium Private Limited Jan 2026 – Jun 2026
Bangalore, India

- **KNET Entrance Test Portal:** Architected a fully-proctored, AI-assisted exam platform end-to-end, scaling to 1,000+ concurrent students with zero downtime across two live rounds; delivered CRM-integrated onboarding, psychometric testing, and interview slot booking.
- **Cross-functional ownership:** Drove 3+ concurrent workstreams — KNET, admissions pipeline, Dojo features, student ticket triage.

OPEN SOURCE

Alibaba open-code-review (Go) — PR #677: Resumable full-file scans Contributor

- Built `ocr scan --resume`: interrupted full-repo scans continue from per-file checkpoints and skip already-reviewed files.
- Cut redundant SHA-256 hashing by caching fingerprints per run; added scan-scope validation and tests after maintainer review.

PROJECTS

Momentum — AI-Powered Productivity Engine | GitHub *Next.js · Go · Python · FastAPI · Redis · AWS · Gemini*

- Real-time Go WebSocket contest engine on AWS EC2; Mutex locking and Redis Pub/Sub sync state across horizontally-scaled instances.
- FastAPI AI scheduling service with Google Calendar; an LLM auto-decomposes and prioritizes 50+ task types.

Shikshak — Enterprise LMS (Team Project) | GitHub *Node.js · FastAPI · Kafka · Qdrant · Azure · whisper.cpp*

- **Built the RAG service:** FastAPI pipeline ingesting videos/docs into Azure Blob Storage, transcribing with **whisper.cpp**, indexing 10,000+ chunks in **Qdrant**, and answering via Azure OpenAI with async Azure Queue processing.
- Team platform: API gateway + 4 microservices (auth, courses, payments, RAG) on a Kafka event bus, deployed on Azure Container Apps via Terraform with GitHub Actions CI/CD.

InvenWise AI — Enterprise Inventory Intelligence | GitHub *React · PostgreSQL · Drizzle · Solidity · Mapbox GL*

- Analytics engine for ABC classification, demand forecasting, and safety-stock/EOQ optimization; Ethereum Sepolia provenance and Mapbox GL logistics maps.

FraudDetector AI — Streaming Anomaly Detection | GitHub *Kafka · Spring Boot/Spring AI · OpenAI Embeddings*

- Real-time fraud interception consuming Kafka transaction events and projecting them into 1536-dimensional vector space for instant anomaly detection with zero batch delay.

SKILLS

- **Languages:** TypeScript, Python, Go, JavaScript, C# (.NET), Rust
- **Frontend:** Next.js 15/16, React, React Native, Angular, Three.js, Tailwind, D3.js, Vite
- **Backend:** FastAPI, Node.js, NestJS, Express, ASP.NET Core, Flask, Spring Boot
- **Data & Infra:** PostgreSQL, MongoDB Atlas, Redis/Upstash, Qdrant, BigQuery, dbt, Cube, Kafka, Keycloak, Terraform, AWS, Azure
- **AI/ML:** LiteLLM, Google Gemini, Azure OpenAI, LangChain, RAG, TensorFlow.js, MediaPipe, whisper.cpp, YOLO, Langfuse

EDUCATION

B.Tech, Computer Science & Engineering — Vellore Institute of Technology, Bhopal 2022 – 2026
CGPA: 8.66/10 (~ 3.7/4.0)

ACHIEVEMENTS & CERTIFICATIONS

- **LeetCode Guardian:** 900+ problems solved; top 1.51%; ranked 9th globally of 30,000+ in Weekly Contest 437.
- **Codeforces Pupil:** Rated 1304 across 20+ rated contests.
- **Certifications:** AWS Certified Cloud Practitioner · Meta: Database Structures & Management (MySQL) · Oracle Certified DevOps Professional · Google IT Support Professional
- **Leadership:** President, Linpack Club, VIT Bhopal — ran 2 hackathons and 3 workshops for 1,000+ attendees; grew membership 30%, participation 50%.