

# Aryan Walia

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Backend-focused Full Stack developer building reliable, scalable systems with a strong foundation in architecture and system design.

## WORK EXPERIENCE

### E SOLUTIONS

Backend Developer

Noida, Delhi

Jan 2025 – Present

- Built a high-concurrency appointment dispatch system for VUC using Redis atomic locks and optimized SQL transactions, achieving sub-50ms latency and eliminating race conditions under load.
- Designed a scalable data ingestion architecture (500GB+ healthcare datasets) using Airflow, Iceberg, and Trino for optimized OLAP querying over compressed parquet files.

### CMS AND APPOINTMENT BOOKING WEBSITE

Freelance Full Stack Developer

Remote

Feb 2026 – Present

- Delivered a production-ready content management platform end-to-end under tight timelines, architecting a secure Admin Dashboard that streamlined the publishing workflow and enabled management of 10,000+ content pieces at launch.
- Built an automated GenAI pipeline for real-time vernacular translation and structured metadata extraction, reducing manual editorial effort by ~90% and significantly accelerating global content rollout.

### TICKETING AND SUPPORT SYSTEM

Freelance Backend Developer

Remote

Oct 2025 – Nov 2025

- Built a scalable, multi-tenant ticketing system with RBAC and automated assignment using Node.js, Express, MongoDB, Redis, BullMQ, serving 200–250 users across 5+ teams.
- Engineered a real-time notification and messaging pipeline using Redis Pub/Sub, Socket.io, PostgreSQL, handling 10k+ concurrent requests/min with horizontal scalability.

## SKILLS

**Backend Development:** Node.js, Django, REST APIs, Microservices, Event-Driven Architecture

**Frontend Development:** React, Next.js

**Databases:** PostgreSQL, MySQL, MongoDB, Redis, Tarantool

**Infrastructure & DevOps:** Docker, Nginx, CI/CD

**Observability:** Pino, Grafana, Prometheus

**Languages:** Python, JavaScript, TypeScript

**Batch And Stream Processing:** Kafka, Spark, Flink

**AI/ML (Additional):** Generative AI, NLP, LLM Fine-Tuning (LLaMA, OpenAI), OCR, LangChain, LangGraph, LangSmith

## PERSONAL PROJECTS

### System Design Articles

Articles talking about system design of real-time video conferencing apps like Zoom, rate limiters, and design patterns like the transaction outbox pattern.

### Database Deep Dive Series

Wrote articles talking about database discussions like OLTP vs OLAP, B Trees vs LSM trees, cockroachDB, TarantoolDB, MVCC, and much more.

### Finetuning Llama

Fine-tuned the LLaMA 2 7B pretrained model using parameter-efficient techniques such as LoRA and QLoRA on an SQL dataset, following meticulous preprocessing to align the data with LLaMA's input requirements.

## EDUCATION

### GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY (GGSIPU)

Bachelor of Technology

June 2025

Cumulative CGPA: 8.5