

Aryan Walia

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Backend developer from India, focused on building reliable and scalable systems, with a strong interest in architecture and system design.

WORK EXPERIENCE

E SOLUTIONS

Noida, Delhi

Backend Developer

Jan 2025 –Present

- Built a **multi-tenant system from scratch**, including **database design** and **overall architecture** of the product, within 2 months.
- Ingested and parsed large in-network files(**500GB**), using **airflow** to orchestrate the entire data flow pipeline, made an architecture with **Iceberg and Trino**, for effective storage and query of the optimized, compressed parquet files.

TICKETING AND SUPPORT SYSTEM

Remote

Freelance Software Developer

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
- **Databases:** PostgreSQL, MySQL, MongoDB, Redi , Tarantool
- **Infrastructure & DevOps:** Docker, Nginx, CI/CD
- **Observability:** Pino, Grafana, Prometheus
- **Languages:** Python, JavaScript
- **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.

- **AI Based File Management System**

Built an [AI-powered document management](#) system with Gemini Flash 2.0, OCR, and NLP to **auto-classify 100+ files per minute**.

- **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)

June 2025

Bachelor of Technology

Cumulative CGPA: 8.5