

# 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

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### 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+)** using Airflow, Iceberg, and Trino for optimized OLAP querying over **compressed parquet files**.
- Engineered a plug-and-play Identity Provider using Bun & ElysiaJS with **passwordless WebAuthn**, stateless RS256 JWT + JWKS verification, Redis-backed challenge management, and **real-time geo-aware session revocation**.

### 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

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**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

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### System Design Articles

Articles talking about system design of **real-time video conferencing apps** like Zoom, **rate limiters**, **flash sale problem**, **designing modern dashboards** and much more ..

### 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.

### Data Engineering and AI Articles

Articles that explore production grade data engineering and AI pipelines built for scale, wrote articles on **ANN algorithms at scale**, **Trino** to query files on blob, **building distributed graphs at scale**, and much more.

## EDUCATION

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### GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY (GGSIPU)

*Bachelor of Technology*

June 2025

Cumulative CGPA: 8.5