

Arpit Chauhan

Backend Engineer

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🔗 <https://portfolio.arpitdev.site>

Profile

Backend engineer with hands-on experience designing and operating **production systems across edge and server environments**. Strong focus on **system constraints, observability, caching, authentication, CI/CD, and failure modes**. Experienced in integrating AI systems as backend subsystems rather than standalone demos. Comfortable reasoning about scale, latency, and trade-offs. Applied AI experience includes agent orchestration, RAG pipelines, memory/state handling, and LLM failure analysis.

Technical Skills

Backend & Distributed Systems

Node.js, Express, Hono, TypeScript, Python

Databases & Caching

PostgreSQL, MongoDB, Redis

Observability & Reliability

Prometheus, Grafana, structured logging

Security & Auth

JWT, OAuth PKCE, password hashing, CORS/CSRF

CI/CD & Deployment

GitHub Actions, Docker image rollbacks

Projects

Blogify: Edge-Native Blogging Platform,

Tech Stack: Hono, Cloudflare Workers, PostgreSQL, Prisma Accelerate [🔗](#)

- Built a **globally distributed backend** on Cloudflare Workers under strict edge constraints (stateless execution, no TCP, CPU limits).
- Implemented **JWT auth with OAuth 2.0 PKCE**, secure cookies, and short-lived tokens for cross-origin clients.
- Replaced bcrypt.js with native Web Crypto APIs to reduce authentication CPU cost and achieve **~2–3x** faster sign-in under edge constraints.
- Integrated PostgreSQL at the edge using **Prisma Accelerate** for HTTP-based access and query caching.
- Designed **read-heavy edge caching** with explicit TTLs and documented consistency trade-offs.
- Built **CI/CD pipelines** with GitHub Actions and Wrangler, enabling sub-minute global deployments across Cloudflare’s edge network.
- Evaluated edge trade-offs vs traditional servers (latency, cost, statefulness) and justified Workers-based architecture.

E-Library REST API: Scalable Backend with Observability,

Node.js, Express, MongoDB, Redis, Cloudinary, Prometheus, Docker, AWS EC2 [🔗](#)

- Built a **modular monolithic backend** for authenticated book uploads, browsing, and access control.
- Implemented **JWT auth with Argon2 hashing** and role-based authorization.
- Designed a **Redis cache-aside strategy** for read-heavy endpoints.
- Integrated **large file uploads (PDFs up to 10MB)** via Multer and Cloudinary, documenting failure modes.
- Added **Prometheus metrics** and structured logging with correlation IDs.
- Containerized and deployed via **CI/CD to AWS EC2** with rollback support.

Education

B.E. Computer Engineering, *Mumbai University*

2020 – 2024
Mumbai, India

HSC (Science), *R.R. International College of Commerce and Science*

2018 – 2020
Mumbai, India

SSC, *St. Mary's High School*

2017
Mumbai, India