Arpit Chauhan

Backend Engineer

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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, Pino

Security & Auth
JWT, OAuth PKCE, CORS/CSRF

CI/CD & Deployment
GitHub Actions, Docker

Cloud
AWS EC2

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),
- 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**.
- Built **CI/CD** pipelines with GitHub Actions and Wrangler, enabling sub-minute global deployments across Cloudflare's edge network.

E-Library REST API: Scalable Backend with Observability,
Tech Stack: 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.
- 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   Mumbai, India