

# ANURAG PATHAK

## Backend Engineer — Systems & APIs

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### SKILLS

**Engineering Focus:** System boundaries & separation of concerns, contract-driven API design, retry-safe request handling, Consistency-aware updates and authorization at API boundaries

**Languages:** Go, TypeScript, Java

**Backend & Systems:** HTTP servers, REST APIs, background workers & schedulers, authentication (JWT), structured error handling

**Data & State:** MongoDB, Redis, relational databases (SQL), caching

**Infrastructure:** Linux, Docker, Kubernetes (CKA), CI/CD (GitHub Actions)

**Frontend (supporting):** Next.js

### EXPERIENCE

#### Kotak Mahindra Bank

Hyderabad

Software Engineer

July 2025 – Present

- Engineered reusable React Native components for investment features, handling complex financial data states (null/undefined, zero, loading) with robust error, retry, and zero-state handling.
- Designed modular component abstractions (calculations, formatting, stateful views) and integrated them with Apollo GraphQL, managing non-trivial data transformations and navigation-driven state.

#### Linux Foundation Mentorship (CNCF)

Remote

Software Engineer Intern (OpenELB)

June 2022 – August 2022

- Designed a modular HTTP API layer in Go for OpenELB, enabling programmatic management of BGP configuration and Elastic IP resources without direct Kubernetes access.
- Applied interface-first design and centralized error handling, mapping Kubernetes API failures to semantic HTTP responses and enforcing clear dependency boundaries.
- Implemented partial updates (JSON Merge Patch) and graceful shutdown; additionally contributed to a CRD-backed dashboard frontend consuming the APIs.

### PROJECTS

#### Subscription Management Service | Go, MongoDB, Redis, Asynq, REST APIs

[View on GitHub](#)

- Designed and implemented a backend service to manage the full lifecycle of recurring subscriptions.
- Structured the system as a loosely coupled monolith with clear separation between API, domain logic, and persistence.
- Implemented asynchronous background workflows using Redis-backed task workers for renewals and notifications.
- Built idempotent task handling and deduplication to safely support at-least-once execution semantics.
- Defined explicit service boundaries separating external API callers from internal schedulers, making authorization rules and trusted execution paths explicit.

#### Minly — URL Shortener | Go, MongoDB, Next.js, Docker, GitHub Actions

[View on GitHub](#)

- Built a small end-to-end URL shortening service to practice backend API design and automated deployment.
- Designed a layered Go backend with explicit separation between HTTP handlers, business logic, and persistence via repository interfaces; implemented URL validation and Sonyflake-based ID generation.
- Set up CI/CD with GitHub Actions, using release-based deployments and multi-stage Docker builds.

### EDUCATION

#### National Institute of Technology, Silchar

2020 – 2024

B.Tech in Computer Science and Engineering

CGPA: 8.32/10

### CERTIFICATIONS

#### Certified Kubernetes Administrator (CKA)

[View Certificate](#)

Cloud Native Computing Foundation (CNCF)

July 2023