Roki Roy

Backend Engineer (Go, API Systems)

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Summary

Backend-focused engineer with production experience building Go-based REST APIs, authentication systems, and scalable backend services. Capable of delivering full-stack solutions using React, Next.js, and Flutter. Strong foundation in clean architecture, database design, API integration, and Docker-based deployment.

Experience

Software Development Engineer (SDE 1) — Fordel Studios   Feb 2025 – Present

- Implemented and integrated Golang REST APIs for production web and mobile applications.
- Integrated third-party services including payment gateways and verification APIs.
- Optimized PostgreSQL queries through indexing and schema improvements.
- Contributed to Flutter and React feature development in Agile sprints.

Full Stack Developer Intern — Fordel Studios   Aug 2024 – Jan 2025

- Refactored backend APIs and improved database query structures.
- Built additional endpoints supporting new frontend features.
- Assisted in debugging and maintaining production issues.

Key Projects

FormulaShop — E-commerce Platform (Fordel Studios)

- Contributed to API integration and frontend development.
- Integrated payment services and improved product listing workflows.
- Stack: React / Next.js, Node.js, REST APIs

emSigner — Digital Signature Platform (Fordel Studios)

- Integrated Aadhaar verification and payment gateway APIs.
- Implemented structured request validation and API handling logic.
- Stack: Flutter, Go / Node APIs

ZenliAI — AI Content Platform (Freelance)

- Architected Go backend using clean architecture principles.
- Implemented asynchronous job processing using Redis and Asynq.
- Built React frontend for content workflows.
- Stack: Go, PostgreSQL, Redis, React, Docker

Astra Terra Properties — Real Estate Platform (Dubai Client)

- Migrated legacy PHP website to modern Next.js application.
- Integrated Pixxi CRM and implemented dynamic property filtering.
- Stack: Next.js, TypeScript, Pixxi CRM

Dooars Dil — Location-Based Dating Application (Personal)

- Developed backend services for user authentication, profile management, and location-based matching.
- Designed relational database schema and implemented filtering logic using Go and PostgreSQL.
- Built REST APIs to support user discovery and interaction workflows.

Vayuroom — WebRTC Platform (Personal)

- Developed peer-to-peer WebRTC video system with Firebase signaling.
- Stack: React, WebRTC, Firebase

Technical Skills

Backend: Go (goroutines, channels), REST APIs, JWT, Redis, PostgreSQL (schema design, indexing)
Frontend: React, Next.js, TypeScript
Mobile: Flutter, Swift
DevOps: Docker, Firebase, AWS (basic), Git
Concepts: Clean Architecture, Concurrency, API Integration, Database Design

Education

University of North Bengal — BCA   Expected May 2026