

# Roki Roy

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## Summary

- Full-stack developer with production experience building Flutter, React, and Golang systems used by 5,000+ users. Strong focus on clean architecture, backend performance, and shipping real-world products across web, mobile, and wearables. Proven ability to deliver and maintain production systems end-to-end in fast-paced Agile environments.

## Experience

### SDE 1, Fordel Studios · Onsite

- Led end-to-end Flutter app development using clean architecture, supporting 5,000+ active users with 98% crash-free sessions.
- Designed and implemented Golang backend services, reducing API response time by 25% and improving system reliability.
- Collaborated with design, backend, and QA teams to architect, implement, and ship features within Agile sprints.
- Optimized a React–Node.js e-commerce platform by integrating third-party APIs and reducing page load times by 30%.
- Designed and shipped a companion Apple Watch app in Swift, extending core mobile functionality to wearable platforms.

### Full Stack Developer Intern, Fordel Studios · Onsite

- Optimized backend APIs and database queries, improving response times and enabling new frontend features.

## Projects

### emSigner Digital Signature

- Developed a production Flutter application with secure API integrations and native performance, achieving 98% crash-free sessions.
- Implemented clean architecture patterns to support scalable feature development and long-term maintainability.

- **Stack:** Flutter, Dart, REST API, Android, iOS

### The Formula Shop – Production E-commerce Platform

- Built and shipped a production e-commerce platform with live users and real order flows.
- Implemented product catalog, cart, and checkout flows with optimized client-side rendering.
- Integrated third-party services for payments and order processing.

- **Stack:** Next.js, Tailwind CSS, REST APIs

### Astra Terra Properties

- Built a full-stack real estate platform with map-based search, advanced filtering, and optimized client-side rendering.
- Integrated Leaflet Maps, GSAP animations, and Firebase backend for real-time data synchronization.

- **Stack:** Next.js, TypeScript, GSAP, Leaflet Maps, Firebase

### LetsGo – Tag-Based Chat System

- Engineered a tag-based user matching system using Redis Bitmaps and Lua scripting for low-latency user discovery.
- Built a real-time WebSocket chat server with gRPC-based microservice communication.
- Containerized multi-service system using Docker for scalable deployment.

- **Stack:** Go 1.22, gRPC, Redis + Lua, WebSockets, Docker, TypeScript

## Technologies

**Backend & Systems:** Golang, PostgreSQL, Docker, gRPC

**Frontend:** Next.js, React, TypeScript, JavaScript (ES6+)

**Mobile:** Flutter (Dart), Swift

**Cloud & Tools:** Firebase, AWS

**Agentic & Automation:** Agentic workflows, LLM tool-calling, task automation, AI-assisted development

## Education

**University of North Bengal** — Bachelor of Computer Applications (BCA)

*Relevant Coursework: Data Structures, Database Management Systems, Operating Systems, Computer Networks*