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.
- Accelerated a React–Node.js e-commerce platform by integrating 5+ third-party APIs, reducing page load times by 30% and improving conversion rate by 12%.
- Designed and shipped a companion Apple Watch app in Swift, extending core mobile functionality to wearable platforms.

Full Stack Developer Intern, Fordel Studios · Onsite

- Refactored 15+ backend APIs and database queries, cutting average response times by 40% and enabling 8 new frontend features.

Projects

emSigner Digital Signature

- Developed a production Flutter application integrating PayU, Stripe payment gateways and Aadhaar verification services, achieving 98% crash-free sessions across 5,000+ active users.
- Architected clean architecture patterns across 20+ feature modules to support scalable development and reduce technical debt by 35%.
- **Stack:** Flutter, Dart, REST API, Android, iOS

The Formula Shop – Production E-commerce Platform

- Launched and shipped a production e-commerce platform serving 1,200+ monthly active users and processing 500+ orders.
- Delivered product catalog (300+ SKUs), cart, and checkout flows with client-side rendering, achieving sub-2s page loads.
- Integrated third-party services for payments and order processing.
- **Stack:** Next.js, Tailwind CSS, REST APIs

Astra Terra Properties

- Developed a full-stack real estate platform with map-based search across 200+ properties, advanced filtering (8 parameters), and optimized rendering.
- Integrated Leaflet Maps, GSAP animations, and Firebase backend for real-time data synchronization with sub-500ms latency.
- **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.
- Engineered a real-time WebSocket chat server handling 100+ concurrent connections with gRPC-based microservice communication.
- Containerized 3-service system using Docker Compose with automated deployment workflows, reducing setup time by 70%.
- **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