

# KARAN SHANKAR TRIPATHI

Software Development Engineer

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## Summary

**Performance-Driven Flutter Developer** with 2.5+ years of experience delivering highly scalable, production-ready mobile applications. Deep technical expertise across **all major state management paradigms (BLoC, Riverpod, MobX, and Provider)**, allowing for tailored architectural choices based on project scale. Adept at handling multi-role systems, dual RTL/LTR localization, and native in-vehicle integrations while consistently optimizing app performance by 30%.

## Experience

Hyperlink Infosystem Pvt Ltd

Software Development Engineer

Ahmedabad

01/2024

- A software development company focused on innovative digital solutions
- Developed and deployed two live mobile applications on the Play Store – a dating app and an EV charging station app – using Flutter and Firebase with secure authentication and real-time data handling.
  - Online Educational Platform: Developed an online EdTech application featuring full RTL/LTR bilingual localization (Arabic/English), multi-role access (Student/Teacher) for live meetings, automated attendance tracking, and real-time homework/material sharing.
  - EV Charging Station App: Built and deployed a live Flutter & Firebase application on the Play Store, utilizing BLoC architecture for scalable state management, secure authentication, and real-time station data handling. Integrated Apple CarPlay and Android Auto support for seamless in-vehicle navigation and station discovery.
  - Dating & Social App: Co-developed and launched a live dating application on the Play Store, implementing secure user authentication, real-time messaging, and interactive user matching profiles.
  - Multi-Role Dog Services Platform: Created a comprehensive service marketplace (User/Vendor/Staff) using MobX state management, integrating REST APIs, Firebase Cloud Messaging (FCM), payment gateways, and in-app purchase modules.
  - Implemented BLoC architecture in the EV charging station app to ensure scalable state management and maintainable code structure.
  - Built a multi-role dog services platform (user, vendor, staff) using MobX state management, integrating REST APIs, push notifications (FCM), payment gateway, and in-app purchase modules.
  - Improved application performance by 30% through optimized state management and code refactoring.
  - Managed production releases, resolved critical bugs, and handled Android/iOS build configurations (Gradle, CocoaPods) following Clean Architecture (MVVM) principles.
  - Developed Pronglish, an online educational platform featuring dual Arabic/English localization with full RTL/LTR layout support, multi-role access (Student/Teacher) for live meetings, automated attendance tracking, and real-time material/homework sharing.

## Education

GLS University

M.Sc. Information Technology

Ahmedabad

01/2022 - 12/2024

M.G University

B.Sc. Information Technology

Kerala

01/2019 - 12/2022

## Projects

Freelance Projects

01/2024 - 03/2025

- A series of freelance and personal projects demonstrating proficiency in app development and web technologies
- News web app: Flutter app with login, profiles, and comments
  - Developed a news application with user authentication, profiles, and comment functionality.
  - Integrated REST APIs for content management.
  - Designed responsive layouts for multi-device compatibility.
  - Admin dashboard & APIs: REST APIs using FastAPI & SQLAlchemy
  - Portfolio website: Responsive site with Flutter web, hosted on Vercel
  - E-Grain app: Full-stack e-commerce app (Flutter + PHP/MySQL)

## Projects

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### Personal Projects

2023 - Present

Built and experimented with cross-platform Flutter projects in personal time to strengthen UI responsiveness and API integration skills.

- Developed a responsive portfolio web application using Flutter Web and hosted it on Netlify.
- Ensured cross-platform compatibility (Web, Mobile, Tablet, Desktop).
- Built a money manager app using Flutter and Firebase for real-time expense and transaction tracking.
- Designed a clean and user-friendly UI for financial tracking.
- Currently working on AI-based expense analysis and smart financial insights integration.
- Founder & Lead Developer, KarQR (B2B SaaS Platform): Founded and engineered a contactless digital menu and ordering platform for restaurants and cafes. Built the mobile and web ecosystem to streamline hospitality operations, enhance customer ordering experiences, and provide businesses with dynamic menu management tools.

## Skills

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Mobile: Flutter, Dart

Backend: Firebase · REST APIs · FastAPI · PHP

State Management:: BLoC · GetX · RiverPod · Provider · Mobx

Tools & IDEs: Git · AntiGravity · Android Studio · VS Code · Cursor