

MANISH SINGH

Software Engineer L1(Flutter)

Professional Synopsis

- Proficient Flutter developer, with 3 years of experience, adept at developing cross-platform apps for Android and iOS, overseeing the entire development life-cycle from conception to deployment on both the App Store and Play Store.
- Skilled in implementing various functionalities such as real-time chat, multi language support, payment integration, and integration with Google Maps API.
- Familiarity with REST and XML APIs, facilitating seamless integration of various functionalities into app development projects

Experience

Quokka Labs LLP	Oct 2024 - Present
Software Engineer L1	Noida
Techtonic Enterprises Pvt. Ltd	Mar 2022 - Oct 2024
Flutter Developer	New Delhi

Contact

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Technical Skills

Languages: Dart, Swift, Kotlin, Python

Development: Flutter, SwiftUI, Jetpack Compose, Node.js, Git, Github

Database and API: MongoDB, Firebase, Postman, MySQL

AI & ML: Retrieval-Augmented Generation (RAG), Sentence Transformers, Vector Databases, Gemini API, OpenAI API

Projects

1. RunTheDay | *Flutter, Firebase, MixPanel, isolates*

Quokka Labs

- Designed and developed a feature to list images and videos captured during a run for users to view and download.
- Implemented functionality to add watermarks to each image for branding and copyright protection.
- Integrated Mixpanel to track user behavior and generate actionable analytics for app usage.
- Optimized media loading and display to ensure a seamless user experience during image and video previews.
- Created a secure download mechanism to protect user data integrity.

2. AI-Powered E-commerce Search (RAG System) | *Node.js, Python (Flask), MongoDB, ChromaDB, Gemini API*

[GitHub](#)

- Built an AI-driven product search system using **Retrieval-Augmented Generation (RAG)** architecture.
- Developed a **Python microservice** for semantic search using **sentence-transformers** and **ChromaDB** for vector storage.
- Integrated **Node.js backend** with REST APIs for category and product management.
- Implemented **AI search API** capable of understanding natural language queries (e.g., “suggest a facewash for men”) and returning semantically relevant results.

3. Connect | *Flutter, Firebase, Socket IO, 100MS*

Techtonic Enterprises

- Developed "Connect," a social media app available on Android and iOS platforms, facilitating user engagement through posts and comments.
- Implemented multilingual support within the app, allowing users to access content in 10 different languages, enhancing its accessibility and user base.
- Leveraged Dio for efficient network requests, Provider for state management, and Hive for local database management, ensuring seamless performance and data handling.
- Integrated push notification services to enhance user engagement and keep users informed about relevant updates and interactions within the app.

4. Cengage Digital | *Flutter, Firebase, Video Player, QR Scan*

Techtonic Enterprises

- Successfully redesigned the user interface of "Cengage Digital," an educational app with over 100k downloads on the Google Play Store, to enhance user experience and visual appeal.
- Introduced new features to augment the app's functionality and provide additional value to users, aligning with evolving educational needs.

- Improved overall app performance by conducting thorough code refactoring, focusing on eliminating unnecessary setState calls and optimizing widget code.
- Implemented analytics capabilities within the app to track user engagement metrics, including app usage frequency and duration spent by students, aiding in data-driven decision-making.
- Addressed and resolved bugs identified within the app, ensuring uninterrupted and smooth user experience across different device platforms.

5. Liberal Hub| *Flutter, Firebase, Google Place API*

Techtonic Enterprises

- Developed "Liberal Hub," an exclusive social media platform connecting politicians worldwide in collaboration with Liberal International (LI) and the Alliance of Liberals and Democrats for Europe Party (ALDE Party).
- Facilitated networking and collaboration among legislators, policymakers, and LI's capacity-building program alumni through innovative features and functionalities.
- Implemented a social feed where users can share their views and engage with posts by liking, commenting, and reporting inappropriate content.
- Introduced an event calendar feature allowing users to stay updated on upcoming events and participate in them directly within the app.
- Integrated search functionality enabling users to find and connect with other users based on various criteria, fostering a vibrant and interconnected community of liberals worldwide.

6. Zeway| *Flutter, Firebase, Razerpay, REST API, QR Scan*

Techtonic Enterprises

- Developed "Zeway," a scooter vehicle booking application, facilitating convenient short rides within urban areas.
- Implemented QR code scanning for streamlined booking processes, enabling swift reservations upon scanning.
- Integrated the Razorpay payment gateway to ensure secure and seamless payment transactions for scooter bookings.
- Incorporating real-time tracking functionality within the app, enabling users to monitor the live location of their booked scooter for enhanced convenience and safety

Education

Bachelor of Computer Application

Patliputra University, Patna Bihar