

# Karthi Kayan R

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## SKILLS

**Languages:** Dart • Java • C • C++ • C# • Python • HTML • JDBC | **Framework:** Flutter | **Databases:** MySQL • SQLite • Firebase • MongoDB | **Version Control & Tools:** Git • GitHub • Visual Studio Code • Android Studio • Eclipse | **SDLC Methodologies:** Agile (Scrum) | **Publishing:** Play Store • App Store • Hosting on Private Servers • GitHub Pages | **Design:** Figma (UI/UX Design)

## EXPERIENCE

### SOFTWARE ENGINEER | CI GLOBAL TECHNOLOGIES

Chennai, Tamil Nadu | July 2023 - Present

- Independently developed and deployed **5 cross-platform applications using Flutter**, overseeing all phases of development.
- Resolved critical Android application issues within 5 months, resulting in a 15% improvement in app performance and a significant increase in user satisfaction as an **Android Developer** before transitioning to the Flutter team.
- Contributed to **10+ successful projects**, excelling in **requirements analysis, API integration, responsive UI implementation, offline storage, AWS S3 bucket, Firebase push notifications, and Play Store/App Store uploads.**
- Streamlined development processes, cutting project completion time by 15% through code optimization.
- Developed **core application modules, debugged issues**, and performed **unit testing** to ensure robust, error-free functionality.
- With **2 years of experience**, enhanced application functionality using Java, XML, Flutter, Dart, Firebase, JSON, and MongoDB, leading to improved user experience and system performance.

## PROJECTS

### CUSTOMER ORDER ENTRY & MEAT PROTEINS Dart • Flutter • GetX • Push Notifications • Local storage (Hive)

- Developed a robust **order management system for B2B operations**, incorporating features such as item selection, review screens for adding and editing items, order summaries, and **advanced menu popups for bulk entries and modifications.**
- Created a **meat ordering app**, enabling users to select quantities and choose between pickup or delivery options. The app includes features such as product search, cart management, order tracking, and user profiles to enhance the user experience.
- Used the Flutter framework to support **web, Android, and iOS** platforms, implementing a scalable **MVC architecture** and **responsive layouts** across devices. Leveraged **GetX** for state management to optimize data flow and ensure efficient functionality, delivering a streamlined user experience.

### TEAPIOCA Dart • Flutter • MongoDB • JSON • RESTful APIs and third-party libraries/integrations • Named Routes

- Delivered a **digital menu configuration application** for cafeterias, empowering staff to manage categories, subcategories, menu items, nutrients, stores, users, roles, store hours, rewards, and price tiers.
- Enabling users to view menu items and their options by integrating **QR code functionality with named routes** for seamless redirection to product website item pages, enhancing user engagement and interaction.
- Implemented **web socket technology** for real-time updates, enhancing communication between the app and product website.

### HOTEL ROOM BOOKING SYSTEM Java • MySQL • JDBC • Data Structures & Algorithms

- Developed a **hotel management system** that enabled users to view available rooms and make bookings. Provided admin controls for managing room availability, profit tracking, repeated users, as well as generating downloadable TXT report files.
- Designed and implemented a **normalized SQL schema** to optimize data integrity and query performance, enabling dynamic discount calculations based on user booking history, thereby enhancing the overall booking experience.
- Incorporated **exception handling** to ensure smooth system performance, preventing errors and improving the user experience.

### ADDITIONAL PROJECTS

- Chat's QR Code and Redirector** - <https://rb.gy/f8u8pi> • **Comment Lines Remover** - <https://rb.gy/mlj6ct>
- Technologies Icons Download** - <https://rb.gy/a4kivd> • **Date and Time Calculator** - <https://rb.gy/fyeu5b>

## ACHIEVEMENT

### DELIVERED PROJECT PRESENTATION TO THE CHIEF MINISTER OF TAMIL NADU

Presented a college project titled 'Intelligent Admissions: The Future of University Decision Making with **Machine Learning**' to the **Chief Minister of Tamil Nadu** as the leader of a 4-member team. Selected as one of 16 innovative projects for presentation out of 3 lakh competitive entries across Tamil Nadu.

## EDUCATION

### BCA (BACHELOR OF COMPUTER APPLICATIONS)

Arignar Anna Government Arts College

**CGPA: 7.7 / 10**

July 2020 - June 2023