bhargava k

Senior dot Net Developer, 3+ years experience
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Senior Full-Stack Developer with strong expertise in .NET and Angular for building scalable and secure applications. Experienced in developing native, web, and Windows-based solutions with robust backend architecture. Skilled in designing POS systems, mobile applications, and real-time data synchronization modules. Proficient in SQL Server, CouchDB, and modern development practices that enhance performance and reliability. Adept at integrating APIs, optimizing system workflows, and delivering clean, maintainable code. Proven ability to collaborate with cross-functional teams and manage end-to-end development cycles. Committed to delivering high-quality solutions with a strong focus on user experience and system efficiency.

INDUSTRIES: Restaurant

TECHNICAL SKILLS

• SQL Server	4 years
• .NET	3 years
• Android	3 years
• Angular	3 years
• Ionic	3 years
• CouchDB	3 years
• iOS	2 years
• DevOps	1 years

PROJECT DETAILS

• KDS April-2023 - October-2023

Project Description: The Kitchen Display System (KDS) is a digital kitchen management tool that replaces traditional printed kitchen tickets with a real-time order display screen. Integrated directly with the POS and Captain App, it enhances kitchen efficiency, reduces errors, and improves order tracking in restaurants. Key Features: Real-time Order Display: Instantly shows new orders as they are placed through the POS or Captain App. Order Status Tracking: Allows kitchen staff to mark orders as "In Progress", "Ready", or "Completed". Color-coded Status: Visual cues to indicate the urgency and preparation status of each order. Touchscreen Compatible: Built for touchscreen systems with intuitive navigation for kitchen users. Station-wise Routing: Supports splitting orders across different kitchen stations (e.g., grill, tandoor, drinks). Sound & Alert System: Plays sound notifications for new orders and delayed items. Auto-refresh & Sync: Ensures continuous real-time updates using background syncing with low latency. Technologies Used: Frontend: Angular (Web-based for smart TVs or touchscreens) Backend: ASP.NET WebAPI Database: SQL Server, CouchDB (for real-time sync and offline mode) Integration: Works seamlessly with POS and Captain App

Responsibilities: Architecture & Planning Designed the KDS system architecture to ensure real-time communication between the POS, Captain App, and KDS screens. Planned database relationships and API endpoints to support kitchen workflows and order routing. Frontend Development Built a responsive and touch-friendly UI using Angular, optimized for tablets, smart TVs, and desktop screens. Implemented real-time order updates with status indicators, timers, color coding, and sound alerts. Backend Development Developed backend services using ASP.NET WebAPI to fetch, update, and sync order statuses with the POS system. Handled logic for order splitting, station-wise filtering, and auto-refresh mechanisms. Real-time Data Handling Integrated CouchDB to support real-time syncing and offline capabilities within the kitchen environment. Implemented WebSocket-like behavior to push new order updates instantly. Performance Optimization Ensured low-latency updates and high availability of the system during peak restaurant hours. Optimized the API and frontend to handle large volumes of concurrent orders without UI lag. Testing & Deployment Conducted device-level testing on various touchscreen hardware and browsers. Managed deployment for web-based kiosks and smart display devices used in the kitchen. Post-deployment Maintenance Monitored feedback from kitchen staff and implemented UI/UX improvements based on real-world usage. Added support for new kitchen workflows like partial order completion, delayed item flagging, etc.

Technologies: angluer,couchdb

Industry: Restaurant

• POS August-2022 - November-2022

Project Description: Point of Sale System for Restaurants Developed a robust and feature-rich Point of Sale (POS) solution tailored for the restaurant industry. The application supports order management, billing, kitchen display integration, table reservations, and real-time sales tracking. Designed for seamless use across mobile (native app), web, and Windows desktop platforms, the system ensures smooth operations for dine-in, takeaway, and delivery services. Key Features: Multi-terminal support with user-based access control Real-time Kitchen Display System (KDS) integration Table and waiter management system Discount and offer engine Payment gateway integration (UPI, card, and cash) Sales reports, tax summaries, and analytics dashboard Offline mode with automatic sync to central database Printer and barcode scanner support (for Windows POS)

Responsibilities: Requirement Analysis & Planning Collaborated with stakeholders to gather functional requirements and plan scalable system architecture. Backend Development Designed and implemented RESTful APIs using ASP.NET MVC and WebAPI. Managed database schema, wrote optimized SQL queries, and handled complex transactions in SQL Server. Implemented background jobs and synchronization logic using CouchDB for real-time data consistency. Frontend Development Developed intuitive UI for the web using Angular and for mobile using Ionic framework. Built responsive layouts and interactive components tailored for restaurant operations. Implemented dynamic data-binding, search filters, and real-time order updates across platforms. Windows Application Development Built rich UI desktop applications using WinForms/WPF for local terminal operations. Integrated hardware interfaces such as Bluetooth printers and ANPR cameras for restaurant automation. Cross-platform Integration Ensured data synchronization and consistent behavior across mobile, web, and Windows environments. Implemented location services and dynamic pricing based on area for online orders. Testing & Optimization Conducted performance testing and optimized slow queries and API response times. Debugged UI issues and backend exceptions to ensure a seamless user experience. Deployment & Maintenance Handled deployment pipelines for all three platforms. Provided ongoing support, bug fixes, and feature enhancements post-deployment.

Technologies: angluer,couchdb,.net web api

Industry: Restaurant

Link: https://play.google.com/store/search?q=ciferon+pos&c=apps&hl=en

• Captain App December-2022 - March-2023

Project Description: The Captain App is a mobile-based order-taking application developed specifically for restaurant staff (captains, waiters). It streamlines the process of capturing customer orders and directly routes them to the restaurant's Point of Sale (POS) and Kitchen Display System (KDS), enabling faster service and minimizing human error.

Responsibilities: System Design & Planning Defined the architecture for seamless integration between the Captain App, POS system, and Kitchen Display System (KDS). Designed database schemas and synchronization logic to support real-time and offline operations. Frontend Development Developed the mobile UI using Ionic with Angular, focusing on usability and speed for restaurant captains. Implemented table-wise order management, item modifiers, and dynamic menu binding based on category or time. Backend Development Created and managed APIs using ASP.NET WebAPI to handle order creation, updates, and status tracking. Integrated secure endpoints with validation, user roles, and error handling for robust communication with the POS. Offline Support & Sync Implemented CouchDB with PouchDB to enable offline order entry and automatic syncing when internet is restored. Handled conflict resolution and ensured accurate order updates across all devices. Testing & Optimization Performed extensive testing to ensure fast load times, accurate syncing, and zero order duplication. Optimized API performance and ensured consistent UI/UX across devices. Deployment & Maintenance Handled build generation and deployment for Android platforms. Delivered ongoing feature enhancements and bug fixes based on user feedback from restaurant staff.

Technologies: ionic ,firebase,.net web api

Industry: Restaurant

Link: https://play.google.com/store/apps/details?id=ciferon.salt&hl=en

• merchant app November-2023 - June-2024

Project Description: The Merchant App is a dedicated mobile application designed for restaurant owners and managers to monitor and manage operations on the go. It provides real-time visibility into sales, order flow, inventory, staff performance, and overall restaurant health, empowering merchants to take quick decisions anytime, anywhere. Key Features: Live Dashboard: View real-time sales, active orders, KOT status, and table occupancy. Order Monitoring: Track dine-in, takeaway, and delivery orders with detailed item-wise breakdowns. Sales & Reports: Access daily, weekly, and monthly sales summaries with tax and discount breakdowns. Inventory Alerts: Get low stock notifications and monitor consumption patterns. Staff Activity Logs: Track login times, order handling, and staff performance metrics. Push Notifications: Receive alerts for important events such as void bills, refunds, or device disconnections. Multi-store Support: Manage multiple branches with location-wise analytics and filters. Technologies Used: Frontend: Ionic / Angular for hybrid mobile app development Backend: ASP.NET WebAPI Database: SQL Server, CouchDB (for real-time updates and offline support) Integration: Connected with POS, Captain App, and KDS for unified data flow

Responsibilities: Requirement Gathering & Planning Collaborated with stakeholders to define the core functionalities needed by restaurant owners for real-time monitoring and control. Designed user flows for sales tracking, staff management, and order analytics. Frontend Development Built responsive and user-friendly interfaces using Ionic with Angular, optimized for both Android and iOS devices. Implemented dynamic dashboards, charts, filters, and order tracking components with real-time data binding. Backend Development Developed secure and scalable APIs in ASP.NET WebAPI to fetch sales reports, order summaries, and inventory data. Implemented role-based access control to ensure merchants can only view their relevant data. Real-time Data Integration Integrated CouchDB for syncing data from the POS, KDS, and Captain App, enabling real-time updates and offline support. Designed a sync mechanism to fetch updated order, sales, and alert data on demand and in background mode. Analytics & Reporting Developed logic for generating graphical reports such as sales trends, top-performing items, and staff activity. Ensured accurate and timely data aggregation for daily, weekly, and monthly summaries. Notification Handling Set up push notifications and alert systems for void bills, refunds, low stock, and critical system events. Configured local device alert systems for real-time updates even when the app is running in the background. Testing & Feedback Implementation Conducted UAT with restaurant partners and owners, incorporating feedback to refine usability. Debugged real-time sync issues, optimized app load time, and enhanced the UI/UX based on real-world usage. Deployment & Maintenance Deployed builds to Play Store/internal enterprise distribution channels. Provided post-deployment support, feature rollouts, and bug resolution.

Technologies: ionic ,firebase,.net web api

Industry: Restaurant

Link: https://play.google.com/store/apps/details?id=com.ciferon.merchant&hl=en

EMPLOYMENT HISTORY

• Senior dot Net Developer August-2022 - April-2025

Description: Full-stack Development: Responsible for end-to-end development of backend and frontend modules across multiple platforms including: Native Mobile Applications: Building and maintaining mobile apps with native functionalities, ensuring performance and usability. Web Applications: Developing interactive and responsive UI using modern frontend frameworks; integrating secure and scalable APIs. Windows Applications: Designing and optimizing Windows-based desktop applications with rich UI and efficient backend logic. API Design & Integration: Creating RESTful APIs and integrating third-party services for seamless data exchange across platforms. Database Management: Managing SQL Server and NoSQL databases, optimizing queries, ensuring data consistency, and handling migrations. Cross-platform Synchronization: Ensuring consistent logic and user experience across web, mobile, and desktop applications. Version Control & Collaboration: Managing source code using Git, coordinating with team members via branches, merges, and pull requests. Debugging & Optimization: Identifying and resolving performance bottlenecks, bugs, and UI/UX issues in multi-platform environments.

EDUCATION

• Masters degree in MCA from Ramdev Baba College of Engineering, Nagpur 2020 - 2022

LANGUAGES

• English - advanced

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