

KALP PARIYA *Full Stack Software Developer*

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PROFESSIONAL SUMMARY

Results-driven Full Stack Software Developer with proven expertise in C#, ASP.NET Core, JavaScript, and cloud technologies. Demonstrated ability to reduce operational costs through innovative automation and customized solutions. Seeking challenging position to leverage technical expertise and project management skills to drive digital transformation and deliver measurable business impact.

PROFESSIONAL EXPERIENCE

Automation & Internal Software Engineer

Alica Technologies LLP, Ahmedabad

11/2024 – 11/2025

Ahmedabad

- Streamlined and Fast-Tracked the Process flow with great reduction in error rates using a comprehensive suite of automation developed in Various Tech-Stacks
- Engineered Android inventory verification application using Kotlin and Jetpack Compose that reduced BOM validation time by 95% (from 4 hours to 12 minutes per order) through automated QR/barcode scanning, Excel workbook parsing, and voice-feedback confirmation system
- Developed automated BOM validation engine that detects designator mismatches, quantity discrepancies, duplicate components, and BOM-to-PNP file inconsistencies, eliminating manual verification errors in electronics assembly workflows
- Integrated Digi-key and Mouser vendor APIs to automate component data retrieval, real-time pricing updates, and inventory availability checks with low-stock alert notifications for proactive procurement management
- Delivered both production systems as sole developer within 2-month timeline, supporting 10+ internal users across warehouse operations, production planning, and quality assurance departments with zero post-deployment critical issues
- Built offline-first mobile application with configurable scan timeout intervals, viewport fine-tuning controls, and CSV export functionality to maintain complete audit trails for quality management and traceability requirements

EDUCATION

Bachelor of Science in Information Technology

JP Dawer Institute of Technology, VNSGU - Surat

06/2022

Surat

Relevant Coursework: Data Structures, Algorithms, Database Management Systems, Software Engineering, Web Development, Object-Oriented Programming

TECHNICAL SKILLS

Core Expertise

C#, ASP.NET Core, Microsoft SQL Server, Kotlin

Secondary Skills

Python, Java, HTML5, CSS3, PostgreSQL, MongoDB

Specialized

RESTful API Design, OAuth 2.0/JWT Authentication, Mobile-first Architecture (Jetpack Compose, MAUI)

DevOps & Tools

Docker, Git, GitHub, SSMS, Visual Studio Code, Postman

Methodologies

Agile Development, Scrum, Kanban, Test-Driven Development (TDD), Software Design Patterns (MVC, MVVM, Repository Pattern)

Software & Tools

Microsoft Visual Studio 2022, Visual Studio Code, Postman, SQL Server Management Studio (SSMS)

LANGUAGES

English

Fluent

Hindi

Conversational

Gujarati

Conversational

PROJECTS

E-Commerce Platform Development

- Architected and built full-stack e-commerce platform using ASP.NET Core and Microsoft SQL Server
- Implemented inventory management system with real-time stock tracking and automated reorder notifications
- Dynamic product recommendations based on the trends
- Complete Telemetry analysis and visualization for stock forecasting

ERP Solution - Customized for Electronic Manufacturing Services

- Architected full-stack ERP solution using ASP.NET Core MVC and MSSQL Server to manage customer data, inventory, work orders, and manufacturing documentation (BOM, Gerber files, XY files) for ISO QMS certification compliance
- Automated BOM validation workflows that detect designator mismatches, quantity discrepancies, duplicate designators, and BOM-to-PNP file inconsistencies, eliminating manual verification errors in electronics assembly
- Integrated Digikey and Mouser vendor APIs to automatically fetch real-time component data, pricing, and availability while implementing low-stock alert system for proactive inventory management
- Developed work order management system linking service orders to manufacturing documentation, enabling traceability and audit trail capabilities required for ISO quality management standards
- Delivered complete ERP implementation as solo developer in 2 months, supporting 10+ internal users across customer management, inventory tracking, and production documentation workflows
- Combined Solution implementation resulted in significant improvement in the accuracy and 80% reduction in time for multiple Tasks like quotation, NPI feasibility research & PNP Programming

Agentic AI Assistant with Tool Orchestration

- Developed custom agentic AI framework from scratch using Kotlin and Jetpack Compose that autonomously decomposes complex tasks into goals, executes multi-step workflows, and validates outputs through iterative LLM verification loops
- Architected external DataVault storage system to minimize context window pollution by offloading intermediate data outside the LLM conversation, enabling handling of large-scale information processing tasks
- Implemented custom tool-calling orchestration using regex-based parsing without relying on native function calling APIs, enabling dynamic tool selection and execution based on task requirements
- Integrated JavaScript code execution environment via WebView to enable real-time code generation, testing, and execution within the agentic workflow for computational tasks
- Built dual-LLM validation system that automatically verifies task completion correctness by comparing final outputs against original queries, ensuring autonomous error detection and iteration until accurate results are achieved
- Engineered configurable runtime controls supporting multiple Gemini models (2.0/2.5 Flash, Pro variants) with adjustable token limits (up to 65K), connection timeouts, and read timeouts for optimized performance tuning

SpeakTheQR - Android App

- Engineered Android inventory scanning application using Kotlin and Jetpack Compose that reduced BOM verification time by 95% by automating MPN-to-serial number matching through QR/barcode scanning
- Implemented Excel workbook parsing and column mapping functionality to process multi-sheet files containing 1900+ rows and 45 columns with real-time camera-based barcode detection
- Developed voice feedback system using Android Text-to-Speech API that announces matched serial numbers audibly, enabling hands-free operation and eliminating manual character-by-character verification errors
- Built offline-first architecture with configurable scan timeout intervals, viewport fine-tuning controls, and CSV export functionality to maintain complete scan history for audit trails
- Achieved zero error rate in inventory verification by programmatically matching scanned codes against pre-loaded MPN databases, supporting all standard barcode and QR code formats

SalesForceCore Library - Integration for Salesforce Into the .NET

- Architected SalesforceCore, an enterprise-grade .NET 10 library providing seamless Salesforce integration with full LINQ-to-SOQL provider, strongly-typed models, and 398+ passing unit tests-eliminating common pain points like magic strings and query building complexity while supporting high-volume operations
- Engineered a complete LINQ query provider that translates C# expressions to optimized SOQL with support for complex filtering, relationships, pagination, and extended operators (Distinct, Union, Except, Intersect, etc.) enabling compile-time type safety and IntelliSense support
- Implemented high-performance data synchronization APIs leveraging Bulk API 2.0 (150M+ records/day), Composite Graph API (500+ dependent operations), and sObject Collections- enabling processing of massive datasets at enterprise scale with automatic retry logic and distributed caching
- Developed comprehensive ASP.NET Core integration layer featuring Razor Tag Helpers (, ,), authentication middleware (OAuth 2.0 PKCE, JWT Bearer, Client Credentials), API endpoints, and built-in resilience patterns with exponential backoff
- Built a dynamic UI system with permission-aware form/list/detail descriptors automatically generated from Salesforce metadata, field-level security enforcement, and REST API endpoints for SPAs-enabling rapid full-stack application development
- Created a CLI model generator tool that scaffolds strongly-typed C# classes from Salesforce org schema with automatic picklist enums, relationships, validation attributes, and documentation-reducing manual mapping and improving developer productivity
- Designed enterprise-grade architecture with distributed caching (Redis/SQL Server support), multi-authentication flows, rate-limit handling, SOQL injection prevention, audit logging, and field-level security-ensuring secure, scalable, and production-ready Salesforce integration