

SARAVANAN R

Full Stack Developer

As a Full Stack Developer with around **3 years** of hands-on experience, I've contributed to the design and development of scalable web and cross-platform applications across **healthcare**, **laboratory**, and **logistics** domains. I've built responsive web portals including **Inspection** Web Portals and **LIMS** dashboards using **React.js** and **Angular**, and developed dynamic **Flutter** applications for **Android**, **iOS**, and **Desktop**. My expertise includes designing and integrating RESTful APIs, optimizing database interactions with SQL Server and MongoDB, and deploying applications via **IIS Manager**, **Play Store**, **Docker** and cloud platforms. I collaborate closely with cross-functional teams to ensure secure, high-performance, and maintainable software solutions, with a strong focus on clean architecture, optimized workflows, and user-centric design.



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[SaravananPortfolio](#)



[SaravananLinkedin.com](#)

Skills

Programming Languages: Java, C (basic), Dart, JavaScript, TypeScript, HTML5, CSS3, SQL.

Frameworks & Libraries: Flutter, React.js, Node.js, Express.js, Next.js, Nest.js, Angular, ASP.NET Web API, Bootstrap, Tailwind CSS, Docker, CI/CD pipelines.

Databases & Data Management: MySQL, Microsoft SQL Server, MongoDB, ORM frameworks, Stored Procedures, Data Modeling, Query Optimization.

Deployment & Cloud Platforms: Play Store, GitHub, IIS Manager (UAT), Vercel, Render, AWS.

APIs & Tools: RESTful APIs, Postman, Swagger, API Integration, API Security.

Security & Authentication: JWT, OAuth2.

Development Tools & IDEs: Eclipse, Android Studio, Xcode, Visual Studio Code, Visual Studio.

State Management & Architecture: Redux, GetX, Provider, River pod, Bloc (Cubit), Context API, MVVM, MVC.

Version Control & CI/CD: Git, GitHub, GitHub Actions, Azure DevOps, Continuous Integration, Continuous Deployment

Other Tools & Skills: Microsoft Excel, PowerPoint, Figma (UI/UX Design), Cross-Platform Application Development, And Deployment, Agile Methodologies.

Experience

Software Engineer

11/2025 - Current

ClazyWorks Pvt.

Chennai.

- Developed and maintained responsive web applications using **React.js** and **Angular**, optimizing accessibility, performance, and cross-device compatibility.
- Designed and integrated RESTful APIs with **Node.js** and **.NET Web API**, ensuring secure, scalable, and efficient client-server communication.
- Managed and optimized databases using **ORM** frameworks and stored procedures for high-performance data operations.
- Implemented robust security protocols including **JWT** and **OAuth2** for authentication, role-based access control, and API protection.
- Deployed web and mobile applications via **IIS Manager**, Vercel, Render, and **GitHub Pages**, leveraging **GitHub Actions** for automated **CI/CD** pipelines.
- Built cross-platform **Flutter** applications for Android, iOS, Web, and Desktop, delivering seamless UI/UX and high-performance functionality.
- Integrated third-party services including **Razorpay**, **Firebase**, **Twilio** (Push Notifications, Crashlytics, Analytics), and **Google Maps** APIs for real-time tracking and route optimization.
- Enabled offline-first capabilities using **SQLite**, **ObjectBox**, Shared Preferences, and Hive, ensuring reliable synchronization and uninterrupted user experience.
- Applied advanced state management techniques (**GetX**, **Provider**, **Riverpod**, **Bloc**, **Redux**) to enhance app scalability, stability, and maintainability.
- Collaborated in Agile teams, participating in sprint planning, code reviews, and version control to deliver high-quality, maintainable software solutions.

Project Experience

VIR - Ship Inspection App | Apr 2025 – Present

A cross-platform solution digitizing and streamlining ship inspection workflows, improving reporting accuracy, data accessibility, and operational efficiency.

- Developed a **React.js**-based inspection dashboard utilizing **Context API and Redux**, enabling real-time inspection management, vessel master data updates, checklist monitoring, and PDF report generation.
- Select vessels and create inspections, Check inspection history, Filter checklists by ship chapter and location.
- Search checklists, Capture and upload photos with comments and defect logging, Generate CSV and PDF reports.
- Built cross-platform **Flutter** applications (Android, iOS, Desktop) with **GetX**, implementing offline-first functionality using **SQLite** for storing inspections, checklists, and high-resolution images.
- Designed and implemented RESTful APIs with **Node.js** and **TypeORM**, secured with **JWT** authentication and **bcrypt** password encryption.
- Optimized SQL Server operations using **stored procedures**, indexing, and query optimization for high-performance data retrieval and scalable inspection management.
- Integrated features for photo capture, defect logging, and checklist filtering by ship chapter/location, improving operational accuracy and reducing manual errors.
- Established cloud synchronization to automatically upload inspection data and images when connectivity is restored.
- Enabled role-based access control and audit tracking for secure and compliant inspection processes.

Tech Stack: Stack: React.js, Redux, Context API, Tailwind CSS, Flutter, GetX, SQLite, Node.js, TypeORM, SQL Server, JWT, bcrypt, jsreport, Puppeteer.

Healthcare Logistics System (Admin Web Portal & Patient, Doctor Raider Apps) | FEB 2024 – Jan 2025 (LIMS)

An integrated healthcare ecosystem connecting patients, doctors, logistics personnel, and administrators to optimize lab and healthcare workflows.

- Developed **Angular** applications leveraging **RxJS** and **Bootstrap** for managing master data, appointments, patient reports, doctor verification, and lab operations.
- Built cross-platform **Flutter** apps (Patient, Doctor, Raider) integrated with **ASP.NET Web API** to support appointment booking, lab test management, home sample collection, real-time tracking, and status updates.
- Implemented dynamic master data management for doctors, patients, tests, vendors, and logistics configurations.
- Enabled **patient** functionalities: appointment and test bookings, home test requests, PDF report access, and real-time notifications.
- Enabled **doctor** functionalities: test approvals, patient consults, report verification, and workflow management.
- Enabled **logistics** functionalities: sample pickup, delivery tracking, and location-based routing via **Google Maps API**.
- Integrated secure payments via **Razorpay** and real-time analytics/notifications with **Firebase** and **Twilio**.
- Applied **Riverpod** and **Provider** for reactive state management to ensure **synchronized** data across apps.
- Optimized **SQL Server** backend with stored procedures; deployed frontend/backend via **IIS**, and incorporated **MongoDB** for logging and analytics.

Tech Stack: Angular, RxJS, Bootstrap, Flutter, Riverpod, Provider, ASP.NET Web API, SQL Server (Stored Procedures), Razorpay, Firebase, MongoDB, Figma , Twilio.

Prodigious – HRMS & Payroll | SEP 2023 – JAN 2024

A comprehensive HRMS solution simplifying employee management, attendance tracking, payroll processing, and workforce analytics.

- Developed cross-platform **Flutter** applications with **GetX**, delivering consistent, high-performance user experiences for HR personnel and employees.
- Implemented employee management modules including roles, departments, hierarchical access control, and secure data handling.
- Built attendance and leave tracking systems with automated approvals, notifications, and real-time shift validation.
- Automated **payroll** processing and **payslip** generation, integrating compliance rules and reducing manual effort.
- Integrated **Hive** database for offline operations and seamless **synchronization** upon reconnection, ensuring uninterrupted HR workflows.
- Implemented location-based attendance verification using **Google Maps API**, improving compliance and operational accountability.
- Developed HR dashboards and analytics for workforce insights, employee performance tracking, and payroll summaries.
- Ensured seamless app deployment and maintenance on **Google Play Store** and **Apple App Store**, including versioning and updates.

Tech Stack: Flutter, GetX, Provider, Hive, REST APIs, Google Maps API, Asp.net.

Telecommunication Site Inspection App (ARDOM) | OCT 2024 - Jan 2025

A full-stack solution digitizing telecom site inspections, enabling engineers to efficiently verify, document, and report equipment conditions.

- Developed a **React.js**-based inspection dashboard utilizing with **Context API** and **Redux** for real-time management of inspection data, asset records, and audit reports.
- Built cross-platform **Flutter** applications (Android, iOS) using **Bloc** (Cubit), with offline-first functionality via **ObjectBox** for remote field operations.
- Implemented inspection workflows including asset verification, remark logging, photo capture, and automated validation to ensure accurate reporting.
- Integrated cloud synchronization and image upload, ensuring seamless data updates once network connectivity is restored.
- Designed visual documentation modules for traceability, audit readiness, and enhanced reporting clarity.
- Optimized application performance, reliability, and data accuracy, improving field productivity and reducing inspection turnaround time.
- Enabled real-time notifications and reminders for field engineers to streamline inspection workflows.

Tech Stack: React.js, Redux, Context API, Flutter, Bloc (Cubit), ObjectBox, Node.js, MySQL, Figma, Local Notifications.

✉️ Education

2018 - 2019, Pudukkottai, TamilNadu.	HSC with 73% Govt Higher Secondary School, Pudukkottai. Bachelor of Engineering(Computer Science And Engineering) with 8.0 CGPA
2019- 2023, Trichy Tamil Nadu	Sudharsan Engineering College Of Engineering, ,Sathyamangalam,Pudukkottai

✖️ Certifications

UDDEMY Certification

- React js, Node js ,Sql
- Flutter

✖️ Interest

Web Development

Agile Methodology

Full stack development

Machine Learning

App Development