ELANCHEZHIYAN P

SENIOR SOFTWARE ENGINEER

Contact

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Education

Bachelor's degree
College, Anna University
2019

Technical Skills

Frontend:
- HTML, CSS, JavaScript, TypeScript
- ReactJS, Bootstrap, Material-UI
- Selenium (C# & Java)

Backend:
- C#, Java
- .NET 8, .NET Core, .NET Framework, NodeJS
- Web API, Adobe ColdFusion

Databases:
- **Relational**: MS SQL Server, MySQL, PostgreSQL, Oracle, SQLite
- **NoSQL**: MongoDB, Cosmos DB
- **Legacy Systems**: AS400

Tools/Platforms:
- SSRS, SSIS, ETL Processes
- NetSuite, HubSpot, EverFi, ServiceNow

Professional Overview

Dynamic and results-oriented **Senior .NET Developer** with 6 **years** of comprehensive experience in **full-stack development**, specializing in **.NET Framework, .NET Core, .Net, MAUI, Web API**, **React** and **Java**. Adept at managing both **front-end** and **back-end development**, with a proven track record of successfully integrating complex platforms like **NetSuite, ServiceNow, HubSpot, PowerBI**, and **EverFi**, resulting in improved system efficiency and scalability.

Led and coordinated **cross-functional teams** of up to **30 members**, enhancing productivity and ensuring timely project delivery through clear communication and agile methodologies. Demonstrated expertise in **database management** across platforms such as **MySQL, MSSQL, PostgreSQL, MongoDB**, and **AS400**, and effectively incorporated **IoT integrations** like **.NET-PLC device connections** to create cutting-edge, connected systems.

Skilled in **web scraping, real-time communication technologies (Zego Cloud)**, and **push notifications**, which have driven user engagement and operational efficiency. Highly regarded for fostering strong client relationships from **requirements gathering to solution design**, delivering customized, innovative solutions that meet the evolving needs of various industries, including **healthcare** and **social media**. Committed to continuous learning and staying at the forefront of technology trends, ensuring that every project benefits from the latest developments in the **.NET ecosystem**.

Work Experience

Senior Software Developer
App Innovation Technologies, Coimbatore | April 2021 – present

- **Led** a team of 30 .NET developers, improving project efficiency by 30% through agile practices and mentorship.
- **Developed** critical applications, including **social media platforms** and **hospital management systems**, using **.NET Core** and **FHIR** standards, increasing user engagement by **30%**
- **Integrated** cross-platform mobile applications in **MAUI** for both Android and Windows, facilitating seamless code sharing and reducing development time by **25%**
- **Designed and implemented** automated **email and SMS notification systems**, resulting in a **25%** increase in user engagement for COVID-19 health awareness campaigns
- **Led full lifecycle development** for applications, overseeing testing, debugging, and deployment, which resulted in a **30%** increase in code stability through rigorous refactoring processes
- **Collaborated** with global clients, including from the U.S., in regular scrum meetings, retro reviews, and new requirement discussions, maintaining a **95% client satisfaction rate** by ensuring smooth communication and timely deliveries.
- **Contributed** to the development of healthcare solutions by integrating industry standards like **HL7** and **FHIR**, ensuring compliance with healthcare data exchange protocols.
- **Optimized** database performance using **PostgreSQL** and **MongoDB**, leading to a **15%** reduction in query processing times.
- **Coordinated** cross-functional teams across **5 projects**, managing up to **30 members** and consistently delivering projects on time, within budget, and exceeding client expectations

Other Skills:
- IoT Integrations (.NET-PLC device connections)
- Real-Time Communication (Zego Cloud, Twilio)
- Push Notifications (Firebase)
- Web Scraping

Cloud:
- **Azure**: App Service, Storage, Tables, SQL Databases, Front Door
- **AWS**: EC2, RDS, S3 Storage

Professional Development

- Jira Fundamentals in Atlassian University
- cPanel User Interface Proficiency in cPanel University
- Foundational C# with Microsoft
- Responsive web design in freeCodeCamp

Technical Associate
Encore Theme Technologies Private Limited, Chennai | August 2019 – April 2021

- **Developed and deployed** two large-scale banking applications using **.NET Framework** and **SQL Server**, improving transaction processing speed by **15%** and enhancing data security in compliance with banking industry standards.
- **Designed and implemented** dynamic reports using **SSRS** for real-time financial data visualization, allowing stakeholders to make informed decisions based on accurate and up-to-date insights.
- **Collaborated** with cross-functional teams in an agile environment, utilizing **JIRA** for sprint planning and issue tracking, ensuring timely project delivery and minimizing downtime.
- **Led the integration** of automated data migration processes using **SQL Server Integration Services (SSIS)**, reducing manual intervention and improving data accuracy by **20%**.
- **Optimized database queries** and conducted performance tuning in **SQL Server**, reducing query execution times by **10%**, which improved overall system performance.
- **Coordinated** with banking clients to gather requirements, provide technical solutions, and deliver comprehensive project documentation, ensuring alignment with client expectations and project goals.

Projects

Seahorse - Dot Net Core

- **Description**: Developed the data analysis application for **Agilent Seahorse XF Analyzer** products, focusing on dynamic reporting and healthcare data integration.
- **Technologies Used**: ASP.NET MVC Core, PostgreSQL, HTML, CSS, JavaScript, SignalR, Selenium.
- **Role**: Full-stack Developer leading the integration of **AmCharts** and **CanvasJS** for dynamic reporting and the incorporation of **HL7** and **FHIR** standards to ensure seamless healthcare data interoperability.
- **Achievements**: Improved reporting accuracy and efficiency by automating test case execution and documentation with a **C#-Selenium** combination, reducing manual testing efforts by **25%**.

Label Connector - Dot Net with MAUI

- **Description**: Created a label printing application integrated with **QuickBooks** and other platforms for customizing labels with purchase order, invoice, and sales details.
- **Technologies Used**: ASP.NET MVC, MAUI (Windows & Android), DevExpress UI.
- **Role**: Lead Developer responsible for developing the mobile app to read and update inventory data from **QuickBooks** and **Xero** and enabling drag-and-drop label customization using **DevExpress UI**.
- **Achievements**: Reduced development time by **25%** through code-sharing between Android and Windows using **MAUI**. The app enabled users to adjust inventory values and print customized labels efficiently, enhancing user productivity.

Qliq1's - Dot Net Framework

- **Description**: Developed a **social networking application** that consolidates social media activities into a single platform with privacy control features.
- **Technologies Used**: Dot Net Framework, MS SQL Server, Firebase Notifications, AWS S3.
- **Role**: Backend Developer responsible for designing database structure, integrating **AWS S3** for media storage, and managing user-generated content privacy settings.
- **Achievements**: Enhanced user data privacy and reduced storage costs by **20%** by optimizing media storage with **AWS S3** and implementing efficient content management protocols.

ICS Locker - Dot Net Core

- **Description**: Developed a secure **locker management system** used across various industries, providing automated storage solutions with advanced security features.
- **Technologies Used**: Dot Net Core, PLC, Barcode Scanner, Azure, MS SQL Server.
- **Role**: Full-stack Developer responsible for integrating local PLC systems with the web and mobile applications, enabling secure storage and access to lockers.

- **Achievements**: Increased system reliability by **30%** by implementing efficient **Azure-based** storage and improving communication between lockers and the management system.

Remote-Com - Dot Net Framework

- **Description**: Created monitoring software for managing pretrial, probation, and parole clients by tracking their digital activities.
- **Technologies Used**: Dot Net Framework, SQLite, Windows Services, iOS Backup Monitoring.
- **Role**: Lead Developer, designing Windows services and implementing local database storage using **SQLite** for device monitoring and syncing data to the server.
- **Achievements**: Enhanced system efficiency by **20%** through optimized local data storage and seamless syncing when internet connectivity was available.

Scantron - Dot Net 8

- **Description**: Developed a ticketing and data integration tool for **Scantron Corporation**, a provider of assessment and data capture solutions.
- **Technologies Used**: Dot Net Framework, Batch Files, SQL Server, Azure, NetSuite, ServiceNow, PowerBI.
- **Role**: Full-stack Developer responsible for integrating third-party APIs (e.g., Ever-Fi, ConnectWise) and automating report generation with **PowerBI**.
- **Achievements**: Improved data analysis capabilities by building a **data mart** and automating the generation of **PowerBI** reports, increasing reporting speed by **25%**.

Technical Contributions & Projects

NetiMobileDevice - https://github.com/artehe/Netimobiledevice/

- **Description:** Contributed to the development of **NetiMobileDevice**, a package designed to facilitate **iOS device management** on **Windows** systems. The package enables seamless integration, device synchronization, and backup management for connected iOS devices.
- **Role:** Open-Source Contributor responsible for adding features related to iOS data synchronization, optimizing backup processes, and improving overall device connection stability.
- **Technologies Used:** C#, .NET Framework, SQLite, Windows Services, iOS Backup Monitoring.
- **Achievements:**
  - Improved **data sync speed** by **15%** through optimized device connection protocols.
  - Enhanced **backup handling** features, ensuring data integrity during transfers between iOS devices and Windows systems.
  - Implemented **bug fixes** that enhanced the stability and performance of device monitoring services.

HEIC2JPG - https://github.com/Elanchezhiyan-P/HeicJpegToolkit

NuGet Package: https://www.nuget.org/packages/HeicJpegToolkit

- **Description**: Contributed to the **HEIC2JPG** project, a tool that converts HEIC image files to the widely supported JPEG format. The project was migrated to **.NET 8** for improved performance and stability, with significant optimizations for file conversion efficiency.
- **Role**: Open-Source Contributor and Package Maintainer, responsible for upgrading the project to **.NET 8**, improving **conversion speed**, and releasing the project as a **NuGet package**.
- **Technologies Used**: **.NET 8**, **C#**, **NuGet**, **Image Processing Libraries**.
- **Achievements**:
  - **Reduced image conversion time by 30%** through performance optimizations in **.NET 8**, enhancing file processing for large image batches.
  - Released the improved version as a **NuGet package**, making it easily accessible to other developers, resulting in **300+ downloads**.