

Sathyaraj Purushothaman

- **9+ years** of IT experience covering all SDLC stages: **Design, Development, Testing, and Deployment.**
- Proficient in **Angular, HTML, and CSS** with over **5 years** of experience.
- Skilled in Microsoft Technologies, including **4+ years in .Net MVC** for front-end development and MS SQL for back-end development.
- Expertise in designing and developing **HTML, CSS, JavaScript, and TypeScript.**
- Strong ability to establish effective task priorities.
- Proven track record of working independently.
- Collaborative team player with an integral role in project teams.

TECHNICAL SKILLS SUMMARY

Current Technology : **UI, Angular(2-12), TypeScript, HTML, CSS, SASS, JavaScript,**

REST-PIs, RxJS, NgRx, NGINX, Angular Material, PrimeNG, Bootstrap,

Internet Technologies: **Node.js, .NET Framework, MVC, Web testing framework - Karma, Jasmine, Cypress, Azure Repos.**

Databases : **Microsoft SQL Server 2008/2010.**

IDE : **Visual Studio 2010 & Visual Studio Code**

Operating Systems : **Windows XP/Windows 10.**

Version Control Tool : **GIT, BitBucket, TFS & CVS.**

Agile Tools : **Version One, TFS, JIRA.**

PROJECTS SUMMARY

1. Tax Form Processing Automation

Role : **Software Developer**

Duration : **May 2014 – May 2015**

Technology : **C#, Microsoft SQL Server 2008.**
Tools : **eFlow 4.5, Visual Studio 2010 and MS SQL Server management studio.**

Description:

The Tax Form Processing Automation Project, undertaken by the New York State Department of Taxation and Fixation, aims to streamline the processing of Corporate Tax and Personal Income Tax forms utilizing the TMS (Tax Management System) product. This project involves the digitization of completed tax forms, achieved through scanning with NCR track machines, and subsequently inputting them into TMS in batches. To ensure accuracy and compliance, a suite of multiple window services is deployed for the processing and validation of these input batches. Additionally, third-party tools like eflow are integrated into the workflow to capture and verify the data from Corporate Tax and Personal Income Tax forms. Once the data validation is complete, the information is compiled into an XML file known as "Extract," which provides comprehensive details about the captured data to the client, enhancing efficiency and data management in tax processing.

Role:

- Developed custom C# functions to validate data types in stored data.
- Created a C# utility for automatically generating fields in the eFlow product based on definitions in Excel.
- Implemented Business Rules validation using C#.
- Added custom hooks to product windows services using C# to meet specific requirements.
- Proficient in various tasks within the eFlow product, including creating Field Capture Documents, Business Rules documents, generating empty form images, drawing regions on images, and designing layouts.
- Developed RDLC reports for displaying database-stored data using SSRS (SQL Server Reporting Services).
- Prepared unit testing test cases and conducted effective unit testing activities.
- Participated in Integration Testing, System Testing, User Acceptance Testing (UAT), and addressed production issues.

2. Net Query Data Access Module

Role : **Software Developer**
Duration : **June 2015 – Oct 2017**
Technology : **C#, MVC, MS-SQL Server 2008**
Tools : **Visual Studio 2012**

Description:

It is a powerful tool that grants users online access to transaction data, images, and reports stored within a centralized repository. It stands out for its exceptional configurability, allowing users to tailor the information to their precise needs. Accessible through any standard web browser, this module ensures data security through full encryption and password protection, eliminating the need for additional internet-related software. Whether for internal use or customer self-service, it offers an intuitive interface with user-friendly menus and function keys.

Users can define their search criteria, and in response, it swiftly displays transaction data and images, delivering immediate access to vital information. This versatile module promises efficiency, security, and convenience, making it an invaluable asset for data retrieval and reporting needs across various industries.

Role:

- Engaged in requirement analysis, development, and issue resolution.
- Developed and executed unit testing test cases, ensuring effective testing.
- Contributed to integration testing, system testing, user acceptance testing (UAT), and addressed production issues.
- Collaborated with cross-functional teams to gather and analyze requirements.
- Played a key role in the development phase, implementing solutions to meet project objectives.
- Conducted thorough testing at various stages of the software development life cycle to ensure high-quality deliverables.

3. MRM- Medical Record Management

Role : **Software Developer**
Duration : **Nov 2017 – Jun 2018**
Environment : **C#, ASP.NET MVC, MS-SQL Server 2012**
Tools : **Version One, TFS and Visual Studio 2015.**

Description:

This application is developed for-profit health insurance company with a profound commitment to the well-being of individuals and communities. Our diverse portfolio of services caters to a wide range of consumers, including families, seniors, military members, and self-employed individuals. Our core mission is to facilitate access to quality healthcare, and we believe that this mission extends beyond insurance to encompass a holistic approach to health and well-being.

It supports for making conscientious business decisions that prioritize the betterment of our members, associates, the communities we serve, and the environment. This initiative transcends traditional insurance offerings, focusing on proactive measures that enhance the overall health and quality of life for all. By fostering a culture of wellness and sustainability, we aim to create a positive impact on individual lives while contributing to the greater well-being of society. Through this initiative, we aspire to lead by example, demonstrating how a for-profit entity can be a force for positive change in the healthcare industry.

Role:

- Participated in requirement analysis, development, and issue resolution.
- Actively attended daily scrum meetings and biweekly sprint planning meetings.
- Prepared comprehensive unit testing test cases and conducted effective unit testing activities.
- Addressed SonarQube issues to enhance code quality.
- Played a vital role in user acceptance testing (UAT) and resolved production issues promptly.
- Collaborated with cross-functional teams to gather and analyze requirements, ensuring alignment with project objectives.

4. The Health Plan Enrollment Hub

Role : **Software Developer**
Duration : **Jul 2018 – May 2022**
Technology : **Angular 1.6+/Angular 6/Angular 8, HTML, CSS, Node.js, TypeScript, Karma, Jasmine.**
Tools : **TFS, GIT, Azure, Visual Studio Code, Azure Repos.**

Description:

This application is designed to streamline the enrollment process for health plan members. This comprehensive application is accessible via web platforms and mobile devices, offering the added advantage of offline functionality, ensuring that users can enroll anytime, anywhere.

Key Features:

Multi-Platform Access: The Enrollment Hub caters to a wide range of users by providing access through web applications and mobile devices, accommodating diverse preferences and ensuring ease of use.

Offline Capability: A standout feature of this application is its offline functionality, enabling users to complete the enrollment process even when an internet connection is unavailable, ensuring uninterrupted service.

State and Plan-Based Enrollment: Enrollment is tailored to the specific state and the type of health plan that the user wishes to enroll in. The system ensures that only agents authorized to sell the selected plan are involved in the enrollment process.

Customized Enrollment: The application allows customers to select their preferred health plan based on their needs. It then uses customer details to automate the enrollment process, implementing business logic and carrying out validations to ensure accuracy and compliance.

Role:

- Actively participated in requirements gathering through discussions with Business Analysts and Product Owners.
- Contributed to the migration process and development, transitioning from Angular 1.6 to Angular 6, and subsequently to Angular 8.
- Attended daily scrum meetings and biweekly sprint planning sessions, ensuring alignment with project objectives and timelines.
- Played a pivotal role in major development efforts, particularly in the implementation of the enrollment module within the application.
- Engaged in comprehensive Unit Testing, System Integration Testing (SIT), and User Acceptance Testing (UAT), addressing and resolving issues as necessary.
- Collaborated effectively with cross-functional teams to deliver high-quality solutions that met business requirements and standards.

5. Image and Video-Based Person Identification and Data Extraction System

Role : **Frontend Developer**

Duration : **June 2022 – Till now**

Technology : **Angular 10, Node.js, HTML5, CSS, SASS, TypeScript, REST APIs.**

Tools : **VS Code, JIRA, Open Project, Ttesting framework - Karma, Jasmine.**

Description:

The project entails the development of an image processing web application, referred to as "RIF" (Recognition and Information Fusion). RIF enables users to upload images for processing, primarily focusing on person identification through a detection process.

The core functionality of RIF includes:

Image Processing: Users upload images, and the application employs advanced image processing techniques to identify and recognize individuals within the images.

Data Collection: Upon successful identification, RIF retrieves similar images and gathers additional details about the recognized person from a data source.

Case Management: Based on the user's details and the information collected, RIF provides the capability to create new case files or append information to existing profiles, ensuring efficient data management.

In addition to image processing, RIF extends its capabilities to recognize individuals within video files. It also facilitates text extraction from various file formats, including documents (e.g., doc, pdf), spreadsheets (e.g., excel), and images (e.g., png).

The project aims to enhance user convenience and data-driven decision-making by streamlining the identification and information extraction process, making it a valuable tool for various applications, including security, data analysis, and document management.

Role:

- Actively participated in requirement gathering, ensuring a clear understanding of project needs.
- Engaged in discussions related to project estimation, contributing valuable insights.
- Assumed responsibility for the development of the Frontend Application using Angular, enhancing user interfaces.
- Conducted unit testing to verify the functionality and quality of the code.
- Took charge of identifying and providing fixes for client-reported bugs, ensuring client satisfaction.
- Adhered to the Agile Scrum Methodology, participating in 2-week sprints to facilitate efficient project management and collaboration.