

# MathiSudhanan

15 + yrs of Experience.

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## EXPERIENCE

### **Payoda Technologies, Coimbatore – Senior Application Architect**

May 2015 - November 2021

### **SunGard, Bangalore — Development Specialist**

Jan 2014 - May 2015

### **Cibersites India, Bangalore— Principal Consultant**

May 2013 - Dec 2013

### **Odessa Solutions Pvt Ltd, Bangalore— Module Lead**

Feb 2007 - May 2013

### **FabGreen Technologies, Coimbatore— Software Engineer**

April 2005 - Jan 2007

## EDUCATION

### **Bharathiar University, Coimbatore — MCA**

2000 - 2003

### **Thava Thiru Santhalinga Adigalar, Coimbatore — B.Com**

1997 - 2000

## PROJECTS

### **Prod-Support Helper.**

**Technologies** – React, Redux, TypeScript, D3.js, .NET Core API, Linq, Entity Framework, Swagger, SQL Server.

**Role** – Architect/Developer

**Duration** – 2 Years

**Company** – Payoda Technologies

## SKILLS

.Net, C#, SQL Server,  
ASP.NET, ASP.NET MVC, Web  
API, React, Redux, JavaScript,  
jQuery, Knockout,  
Bootstrap,HTML, CSS, Less,  
Redis, RabbitMQ, Topshelf,  
Akka.NET.

### **Design Patterns**

**Server side:** Factory,  
Singleton, Facade, Strategy,  
Adapter, Proxy, MVC, MVVM,  
Repository, Unit of Work,  
Visitor, Aspect Oriented  
Programming(AOP).

### **Design Principles**

SOLID, DRY, KISS

## LANGUAGES

English, Tamil

## PERSONAL DETAILS

Father's Name: M Manickam

Date of Birth: 19th Sep 1979

Nationality: Indian

Marital Status: Married

**Description** – Dashboard screen to view status of all applications and issues if any. Check weekly status and issues in graphical representation. Combined all other production support related in all applications to one application. Few configuration set-up related to **Asynchronous Stat Engine API** has been added to it.

**Asynchronous Stat Engine API**— *Internal Web Api which processes the request in asynchronous mode.*

**Technologies** – Web API 2, Linq, ADO.Net with custom Framework, Swagger, Redis, Rabbit MQ, Topshelf, SQL Server.

**Role** – Architect/Developer

**Duration** – 6 Months

**Company** – Payoda Technologies

**Description** – The Application is designed to overcome the existing timeout issues in Stat Engine API. The Asynchronous API is a wrapper API on Stat Engine. This provides the token based Asynchronous mode to the requests. When the long running request is made the API generates the token and send it back to the customer and sends the request to Topshelf service Stat Engine Service through RabbitMq. The Stat Engine service process the request and stores the response in Redis and sends the notification to the Clients through RabbitMQ. The Clients then makes another request to the API to get the response back.

**Permission API**— *Internal Web Api which returns the permissions for all hedgemark applications.*

**Technologies** – Web API 2, Linq, ADO.Net with custom Framework, Swagger, Redis, Rabbit MQ, SQL Server.

**Role** – Architect/Developer

**Duration** – 1 year

**Company** – Payoda Technologies

**Description** – The Application is designed to overcome the existing Permission related issues in applications like HM.Com, HM2, HM Operations. The logic is spread all over the applications and implemented in their own way. The API dealt with Portfolio, Fund, Context Date, Stat and Category permissions along with Internal User, Internal User (with Client Mode, Internal Mode and Full Access Mode). The Stat and Category has waterfall logic in the permissioning. All were dealt in Permission API which is a single point of Contact for Permissions.

**CBC** — *Application for the credit union people to view the details of customers.*

**Technologies** – Mvc 5, Linq, Entity Framework, JavaScript, jQuery, Knockout, Bootstrap, Less.

**Role** – Architect

**Duration** – 6 Months

**Company** – Payoda Technologies

**Description** – The Application is designed to see the details of the customers and their transactions done in the business of lending money. Where the application users should be able to access the application both in mobile and Pc's. The Application is designed to fit both.

## **Chevron Federal Credit Union — Application for the customers to change their addresses.**

**Technologies** - C#, Mvc 5, JavaScript, jQuery, Knockout.

**Role** - Architect

**Duration** - 1 Month

**Company** - Payoda Technologies

**Description** - The Application is designed to change the address of customers of Chevron Federal Credit Union.

This application came with architectural change in the UI layer where the code was very clumsy which has been modified and met the client requirements for the Phase 1. The architectural change has been done with design patterns in javascript

## **HedgeMark — Application for the customers to view their Investments progress in the Hedge Funds.**

**Technologies** - C#, Web Api.

**Role** - Architect (Returns Engine)

**Duration** - 7 Months

**Company** - Payoda Technologies

**Description** - The Application has several parts such as Aggregation Engine, Returns Engine, HM Data, HM 2

**Returns Engine:** Returns Engine communicates with the third party software called as MPI stylus which accepts the request and the calculations will be made by the MPI and returns the results via text file which is then parsed and inserted into the DB for the report viewing purpose

Made changes to the returns engine from classical way of reading text files and inserting into DB to Socket programming where the request will be converted to bytes and send to the stylus through sockets via TCP and the response will be parsed from bytes to text and based on the request type will be saved to db or directly be used by the reports such as Individual Fund Summary, Aggregation Fund Summary, Aggregation Statistical, Manager Stats etc for which there will be configurations which needs to be done in the stylus file.

## **Ambit Asset Finance— Asset Management System for complete leasing processing**

**Technologies** - MVC 4, ADO.Net ,C# 4.5, LINQ, jQuery, Knockout, Bootstrap, less, JavaScript.

**Role** - Development Specialist

**Clients** - HSBC France, NBL Japan, Shawbrook UK.

**Duration** - 16 Months

**Company** - SunGard

**Description** - Ambit Asset Finance (AAF) is the internet based lease and asset management system (with the responsive UI) which provides the end to end solution for the complete leasing process.

It manages from the date of booking lease, which has the process of workflows with different states. It manages the Accounting flows (both inward and outward flows) which are created every month. It allows the lessor to restructure the lease based on their roles, Managing asset related depreciation, and taxes based on the defaulting profile set up in the product.

**Retail Transaction Processing — *Back office application for viewing Exceptions that happen in retail transactions.***

**Technologies** - MVC 4, ADO .Net ,C# 4.5, LINQ, jQuery, JavaScript.

**Role** - Principal Consultant

**Clients** - Disney.

**Duration** - 7 Months

**Company** - Ciber

**Description** - RTP is a web application with a custom built rules engine that facilitates the transmission of transaction level detail information received from source sales systems to target house-back-office systems for further processing. As RTP is a web application, it does not require downloading and installation.

Through RTP application, RTP users can manage exceptions, or failures in transactions. Exceptions are generated when information that RTP receives from source systems fail against the application's verification checks. An exception can be the result of missing data, incorrect data, or data that was not translated correctly when submitted to RTP by an exterior application. Each exception must be investigated and addressed. Exceptions against transactions will have status viz. U-User review pending, A-Updated, C-Corrected and F-Failed After Resubmission.

Through RTP application, RTP users can view and modify (edit) exception transaction and resubmit for processing.

**LeaseWave — *LeaseWave™ is an internet based lease and asset management system.***

**Technologies** - MVC 3, Entity Framework 4 ,C# 3.5, XML Web Services, LINQ, Microsoft Enterprise Library, jQuery, JavaScript, SQL Server 2008.

**Role** - Module Lead

**Clients** - TCF, Merchants Leasing.

**Duration** - 6.5 years

**Company** - Odessa Technologies

**Description** - LeaseWave™ is an internet based lease and asset management system. It handles all aspects of lease which are before 6 months of completion. LeaseWave integrates different customers to a lease together, while allowing the lessor to efficiently manage any number of lease portfolios. Essentially, it handles all the required accounting for each lessee. It also generates invoices, posts payments towards invoices, It also deals with End of Term, Late stage collection process and Workouts.