VENKATACHALAPATHI THIRUPATHIRAJ
.NET FULL STACK DEVELOPER

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SUMMARY

A seasoned enterprise application developer with over 16 years of experience in designing, developing, and maintaining complex software solutions across diverse industries. Skilled in cloud computing, project management, and leading cross-functional teams to deliver high-quality applications.

- Managed multiple roles including Site Reliability Engineer (SRE), Team Lead, Project Coordinator, and Developer.
- Skilled in executing projects leveraging Azure Cloud Services, including Azure AD, Azure Functions, Azure Blob, and Azure Key Vault.
- Proficient in transitioning from legacy systems to cloud environments and understanding diverse computing services.
- Successfully led projects using design principles such as Object-Oriented Programming (OOP), SOLID principles, and Microservices architecture.
- Skilled in developing both web and Windows applications using the latest technologies including XML Web Services, REST APIs, Web Controls, User Controls, LINQ, Class Libraries, WinForms, and WebForms.
- Experienced in developing authentication and authorization systems like OWIN & OAuth.02, JWT, Forms-based, Windows-based authentication, Azure Authentication, Single Sign-On with SAML and ADFS, and managing user and role authorization.
- Expert in designing and developing user interfaces using HTML, DHTML, XML, jQuery, TypeScript, and JavaScript.
- Proficient in understanding Entity Framework core and RDBMS concepts, as well as SQL Server 2019/2016/2012 database objects including Store Procedures, Functions, Triggers, and TSQL.
- Skilled in SSIS packages for ETL processes and SSRS development for generating reports.
- Proficient in unit testing frameworks such as NUnit, Moq, MS Test.
- Experience in applying deep business and process knowledge to domains like Logistics, Healthcare, and Retirement.
- Skilled in Domain Driven Design (DDD) and Test-Driven Design (TDD) methodologies.
- Expertise in effort estimation, task allocation, design, design reviews, coding, peer code reviews, unit testing, integration testing, code quality, application security, status meetings, and creating technical specifications and presenting end-user demos.
- Knowledgeable in ITSM tools like JIRA, TTPRO, ALM, Cherwell, and Service Now incident management.
- Experienced in preparing and maintaining various project plans and documents, including Business and Technical Requirement documents, status reports, project dashboards, and lessons learned.

PROFESSIONAL SKILLS

Azure	:App Service, Functions, Service Bus, Application Gateway.
BackEnd	:NET (7-8.x), ASP.NET Core, ASP.NET,C#, MVC, REST API, Entity Framework Core, Dapper, LINQ, WCF Service, VB.NET, ADO.NET.
FrontEnd	:Angular, React,TypeScript, JavaScript ,jQuery, CSS, Bootstrap.
Database	:SQL Server, Azure SQL, Cloud SQL, Oracle.
ETL Reports	:SSRS, SSIS, Crystal Reports.
Project Management	:Agile, Scrum, Kanban, Jira, GitHub, Bitbucket, Azure Dashboard, TFS, VSS, Clearcase.
Others	:Powershell, NodeJS, ExpressJS, Dev Express, Sonar-Cube, Veracode, SOAP UI, Postman. Swagger, MongoDB and SQL Delta.

WORK EXPERIENCE

SENIOR .NET DEVELOPER
VRS (VIRGINIA RETIREMENT SYSTEM.) - VNAV

(2020 - PRESENT)

The Virginia Retirement System, an independent state agency, administers defined benefits, defined contribution and hybrid plans along with other benefits for Virginia's public sector employees. It is specialized in Defined Benefit Retirement Plans, Deferred Compensation and Cash Match Plans, Group Life Insurance Plan, Disability Plans, Hybrid Retirement Plan, and Health Insurance Credit.

- Developing applications using C#, ASP.NET Core Web API 8.x, MVC, Angular 10.x, HTML5, LINQ, Entity Framework core 8x, Entity Framework 6.0 and SQL server.
- Created table scripts with relationships, indexes, constraints, views and stored Procedures in SQL server.
- Validation of code by writing Unit Test Cases.
- Responsible for designing and optimizing code for critical functionalities and involved in making major functionality work with good performance.
- Understanding Epics, user stories based on the requirement in Agile methodology.
- Prepare the sprint based on user stories once created.
- Used SCRUM for agile development and participate team-led solutions, reviews peer's code for quality and completeness.
- Work closely with developers (team), testers and clients to identify write stories of functional to complete.
- Deliver code for service side programs on bi-weekly basis that is robust, functional, and scalable.
- Identify development issues, brainstorm solutions, and constantly improve the solution via testing and feedback until the issue is resolved.
- Created a service layer to read application data from RESTful services and API from various modules systems.
- Used Angular 10, JavaScript, jQuery, JSON, MVC-Razor and AJAX as front-end scripting language in UI views.

SENIOR .NET DEVELOPER
VRS (VIRGINIA RETIREMENT SYSTEM.) - ADMIN & HR APP

(2020 - PRESENT)

The Virginia Retirement System configured user roles and permissions through the VNAV-Admin portal. Depending on their assigned roles and permissions, users were granted access to specific menus within the VNAV application. HR Apps typically offer salary, employment, and contract details for state employees.

- Developed a Web API (Rest API) using ASP.NET Core 8.x and Dapper, facilitating user roles and permissions for CRUD operations (read, add, update, delete) endpoints.
- Implemented authentication and authorization in the Web API using JWT (JSON Web Tokens) for secure access control.
- Utilized ReactJS framework for the front-end, enabling consumption of admin API endpoints and performing CRUD operations interactively.
- Implemented the repository pattern to encapsulate endpoint functionalities, enhancing maintainability, and utilized Auto Mapper for seamless mapping between request and response DTO objects.
- Applied Bootstrap styles to enhance the UI, ensuring a user-friendly and responsive interface.
- Deployed the application to Microsoft Azure cloud services, leveraging Azure Key Vault for secure configuration management.

SENIOR .NET DEVELOPER / TECHNICAL LEAD
ANTHEM - CCB/CUE

Anthem, Inc. is the largest health benefits company in terms of commercial membership with leading health Benefits Company serving the needs of more than 33 million medical members nationwide in the United States. Currently, CCB provides customer service medical information for members and provider for WellPoint call centers in 18 different states and 19 different vendors. CCB has three versions of the application. Each version is represented by the mainframe they connect (CCB-Facets, CCB-WDS, and CCB-WGS).

- Interfacing with clients for business requirement gathering, conducting system analysis and finalizing technical/functional specification based on the user stories.
- Developed applications using C#, ASP.NET Web API, MVC 5, Azure functions, HTML5, LINQ, ADO.Net, Entity Framework 6.0 and SQL server.
- Involved in Unit Test using MS Test.
- Created table scripts with relationships, indexes, constraints, views, and stored Procedures in SQL server.
- Implemented dev-express features to help users build Microsoft Office-inspired solutions easily.
- Used JavaScript, JQuery, JSON and AJAX as front-end scripting language in UI views.
- Used SCRUM for agile development and participate team-led solutions, reviews peer's code for quality and completeness.
- Work closely with developers (team), testers and clients to identify write stories of functional to complete.
- Developed a service layer to read application data from RESTful services and API from various dependency systems.
- Used Veracode tool to check the code quality.

SENIOR .NET DEVELOPER / TECHNICAL LEAD
ANTHEM - SPECIALITY ENROLLMENT SYSTEMS

Specialty Enrollment System is a customized application for specialty products including L&D, Dental and Vision products for all brands enterprise wide. The application helps in managing the group information and to generate class level enrollment forms.

- Lead the team to perform 100% deliverable without issues in all the phases.
- Gathering requirements from business and understanding the business functionality and estimate the scoping document.
- Clarifying the business requirement detail to team and prepare the TRD and TDD based on the requirement.
- TRD and TDD has been reviewed with users and SME's.
- Involved SDLC phase.
- Developing & enhancing applications using MVC with Entity Framework, and JQuery.
- Ensuring the quality of code by having internal peer review before SME architect review.
- Coordinate with all the upstream and downstream systems for integration testing and deployment activity.
- Developed/Hosted REST API to get the members enrollment details from database to generate the reports.
- Used Crystal reports to display the member's benefits information based on the coverages.
- Used SSRS to display large enrollment members based on the coverages. Created parameterized reports, drill down and Drill through reports using SSRS. Worked on formatting SSRS reports using the Global variables and expressions.
- Implemented exception handling, logging using Microsoft Enterprise library.
- Prepared the complete data mapping and Report Definitions for the project which involved around 20 reports.
- Maintaining applications which consume more than 50 web services for business data processing operations.
- Verified the code quality by using Sonar-Cube.

SENIOR .NET DEVELOPER (2008 - 2011)
ACER - CUSTOMER SERVICE SYSTEM

Acer Customer Service System (CSS) is an ERP system used by the Call Center as well as Repair Center technicians for efficient and fast processing of issues from Acer customers. Also, the parts and units are efficiently maintained/serviced with the help of the CSS Financials – incorporated with CSS across all repair centers. The Customer Service System (CSS) has been developed for 'Acer Computers' to provide a comprehensive solution to keep track of the warranty service activities for its products. The system comprises of Case Creation, Receipt of Goods for Repair, Repair Activity and Shipment processes.

- Implemented data access operations using ADO.Net concepts.
- Created tables, stored procedures for data storage/access activities for new requirements or enhancements.
- Used SQL Delta tool for data objects comparison in SQL server.
- Enabling Web Services to get product and customer information to create a case by agent.
- Involved in Page Design, Development and Maintenance
- Involved in System Testing, Unit Testing, and Regression Testing
- Prepared Test Plans, Test Cases, Test Scripts for unit testing.
- Reviewed coding/unit testing results with Client architect.
- Prepare the technical sprint document to teams (developers)
- Reviewed the TDD and sprint approach to client SME.
- Generate the reports by using crystal reports.
- Developed/Hosted WCF services to retrieve production information from various systems.

EDUCATION AND CERTIFICATION

Master of Computer Applications (2004 - 2007)
Anna University

Cognizant Certified Professional (2013)
Healthcare Domain

Completed Microservice training (2024)
Treeloop

Microsoft Certified: Azure Fundamentals (2024)
Microsoft