

**Nandagopal Rangappa**

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**PROFESSIONAL SUMMARY:**

* **20+years** of hands on experience in IT Industry, with Experience in Software Application Development, Defining and Designing Solutions, Writing Code, Testing and Maintenance of **Stand alone**, **client/Server**, **Internet/Intranet, Cloud** Applications.
* Worked with various tools and applications for building software solutions and have **good domain knowledge** of Financial, Accounting, Trading, Retirement Planning, Hiring & Leasing, etc. Solid track record **delivering excellent results**, leading teams and being a team player.
* Development focused on Client/Server and Web based applications using Azure, .Net Core 2.2, .Net **Remoting, Docker, Azure Data Factory, Azure Functions, Azure Tables, Cosmos DB, MongoDB, Azure Blobs, Logic Apps, Event Hub, Power Platform**/Apps, Web Services, ASP.NET, MVC, C#, WCF, SSRS, Web API, Angularjs, Angular 8.0, Knockoutjs, Vue.js, React JS, Typescript, jQuery, HTML, and JavaScript. Thorough understanding of Internet Technologies, sound knowledge in RDBMS like Microsoft Access, MS SQL 2000, 7.0, Object-Oriented development methodology.
* Developed Web Pages using SPA (Single Page Applications) Framework, HTML5, CSS3, Bootstrap, Angular, Typescript and from backend .NET Core API and Entity Framework Core.

# TECHNICAL EXPERIENCE:

# Operating systems Windows 10, UNIX, LINUX

# Languages C#, VB.NET, VB 6.0, T-SQL, PL/SQL, C++, VBA, Javascript, VBScript, COBOL,

# GUI Development Visual Studio.NET 2022

# Databases MS SQL Server 2019, Oracle 9i, Sybase, MS Access, DTS, SSIS, SSAS, MySQL, DB2

**Cloud Technologies /Tools** Azure, Azure App Services, Azure Storage, Azure Functions, Azure API management AWS, PCF (open source Cloud Foundry)

# Web Technologies .Net Core 6.0, .Net Framework 1.1-4.8, SharePoint, ASP.NET 4.8/4.5/3.5, ADO.NET, IIS, HTML, DHTML, XML, XSL, XPATH, JavaScript, AngularJS, Angular 7/8/9/12, Bootstrap, ThreeJS, Babyloan JS, Web API, Web Services, SOAP

# Middle/Distributed Technologies .NET Remoting, WSDL, WMQ, Mulesoft, WCF

# Design Tools MS Visio, Erwin, Rational Rose 2000, RUP, UML 1.1

# Version Control GIT, TFS, MKS, SVN

# Reporting Tools SSRS, Crystal Reports

# Third Party Controls Swagger, Newtonsoft, Siteminder Authentication, Dundas Charts, Infragistics UI

PROFESSIONAL EXPERIENCE:

**Sr. .Net Lead Developer, Woolbright Development Inc, FL Apr 2024 – Till Date**

**Project Name: PSquared, Site Visit Crawler, Site Visit Dashboard**

**Responsibilities:**

* Understand the existing application, build new modules with current application architecture and fix the existing issues.
* Made PSquared application to build and running locally, as it was developed sometime ago. Upgraded to .Net 8 and rewrote some portions of the code, upgraded the **Node packages**, rewrote the **webpack.config.cs** to make the system up and running locally.
* Used microservices-based solutions with .NET Core, leveraging Docker for containerization and Kubernetes for orchestration.
* Collaborated with team members to create a test automation framework using Xunit in Blazor projects.
* Integrated Azure Functions with other Azure services for dynamic and event-triggered workflows.
* Enhanced the SiteVisit Dashboard application by adding admin features using Blazor, deployed in **Azure Static Website** uses **Azure functions** and **Azure AD** (Microsoft Entra ID) for authentication.
* Fixed some minor issues with SiteVisit Crawler application developed using **Python**, deployed as **Docker** container and managed with **Portainer UI** (a lightweight web-based Docker management UI).

**Environment**: .Net Core, .Net Framework, C#, Aurelia, jQuery, JavaScript, Web API, Azure SQL Server, Azure VM and other services (Static Web Pages, Functions, Active Directory, Graph, DevOps, etc), Azure App Services, Azure Storage, Azure Functions, Azure API management Webpack, Dapper, Blazor, NodeJs, Python, Docker, Portainer, Microservices, Swagger, SharePoint.

**Sr. Full Stack Engineer, LPL Financial, SC Oct 2022 – Dec 2023**

**Project Name: Fee Billing & Re-billing**

**Responsibilities:**

* Conduct **Daily Stand up** meetings with onshore and offshore 5 team members to get the status of the stories for the current active sprint.
* Understand the existing application and build new modules with current application architecture.
* Created **Lucid Chart** diagrams for new modules as part of the **System Design Document**.
* Optimized the **SQL Stored Procedure** code to improve performance.
* Integrated **Dependency Injection** into multiple legacy C# applications using **Unity Framework**.
* Added **Unit Test Cases** for Controller and Provider classes to pass the **SonarQube quality gates**.
* Incorporated new **C#** code to the Advisory Fee Adjustment Services module to fix the production issues.
* Enhanced the Custom Fee Billing to address incorrect message shown while submitting, decoupled the **SMTP** and submission functionality in **REST API** code, and display of message changes are done in **Angular.**

**Environment**: Angular 12 with jQuery, TypeScript, ASP.NET 4.8, .Net Core 6, Web API (REST API), C#, Azure App Services, Azure Storage, Azure Functions, Azure API management, Azure SQL Server, Git Labs & GitHub Actions, JIRA, Confluence, TeamCity, Octopus Deploy, Microservices, Swagger Hub, NewtonSoft JSON.

**Sr. .Net FullStack Developer, Wells Fargo, MN Mar 2020 – Aug 2022**

**Project Name: Liquidity Risk Management Tool**

**Responsibilities:**

* Participate in **Daily Stand up** meetings with two weeks of **Sprints** followed in **Agile Scrum** methodology.
* Work with **Product Owners** and understand the requirements, ask questions if needed more details.
* Discuss with team for proper understanding of requirements, to provide necessary **story points**.
* Understand the existing Application and its Architecture to build and accommodate new modules/features. Create **Visio diagrams** for better understanding of code.
* Design the solution to fit within the current **Microservice architecture**, and Develop the applications' new enhancements using **C#, LINQ, NewtonSoft, JSON** to building API services.
* Added new **Angular/TypeScript components** such as Liquidity, Capital, WindDown and etc using **PrimeNG controls**, that dynamically generates views as defined in **SQL** database.
* Have experience deploying .NET Core applications on cloud platforms such as Microsoft Azure.
* Participate in **peer reviewing of code** of other team members to make sure it is adhered to company standards.
* Creating the Azure Automation for VM allocations
* Integrated Azure Functions with other Azure services for dynamic and event-triggered workflows.
* **Build** and **Deploy** the application to Development and SIT environments with **Azure DevOps CI/CD pipeline** after implementation of functionality, to do unit and integration testing.
* Work with QA team to mitigate the identified issues. Participated in the meetings of **Testing Automation**, and soon implementation starts to write **test cases** with **AAA pattern**.
* Performed **API tests** using **Swagger UI** tool.
* Implemented Java code to interact with Azure Storage using Azure SDKs.
* Since last year moved from **Azure Cloud** platform to **PCF Cloud** to host application, **Jenkins** for CI/CD pipeline and **UDeploy** for deployment.

**Environment**: Angular 7/8/9 with PrimeNG controls, TypeScript, ASP.NET 4.8, Web API (REST API), C#, LINQ, SQL Server, Azure App Services, Azure Storage, Azure Functions, Azure API management, Azure DevOps CI/CD, JIRA, Confluence, Visio, Microservices, Agile Scrum, .Net Core, Swagger, NewtonSoft JSON. PCF Pivotal Cloud Foundry (PaaS), Jenkins CI/CD, UrbanCode Deploy (UDeploy).

**Technology Architect, Infosys, NJ Jan 2018 – Jan 2020**

**Project Name: Money transfer from Client’s Trust and Retail Accounts**

**Responsibilities:**

* Actively participated in application development and support, enhancements and release management life cycle activities and tracking the **tasks in JIRA (**previously using Rally)
* Enhanced the application to eliminate the duplicate insertion of data when Port View application calls Trust Web services to create transactions and PACE **DB2 databases** by making calls to **WCF services**
* Enhanced Service Request application by adding new functionality to comments section while user is creating new Service Request using **C#, ASP.NET 3.5, jQuery**
* Provided support for application development life cycle to lead offshore team as Proxy Scrum Master, and support for troubleshooting production issues.
* Wrote Internal Transfer **WCF service** to transfer the funds from one account to another account, that interacts with **application UI** and **MuleSoft services**.
* Reverse engineered the application’s existing code to **create High Level Architectural Diagram** using **Visio**.
* Created a **process flow diagram** for Posted Transaction flow by analyzing existing code using **Visio**.

**Environment**: ASP.NET 3.5, MVC, C#, jQuery, Angular 1.6, WCF, WMQ (WebSphere Message Queue), TIBCO Middleware, MuleSoft Anypoint, SQL Server, DB2 and Custom ML Framework, Rally, JIRA, Visio

Sr. .Net Developer, Metso Minerals, PA Jan 2017 – Oct 2017

**Project Name: Mill DEM Suite**

Responsibilities:

* Began to familiarize with the code by analyzing and debugging the existing code to understand its complexities. Made small changes to update with new functionalities and to test the existing code.
* Updated the code to render the particles on screen for Mill Discharge module and look and feel of Discharge module using **Angular JS, Three JS library**.
* Provided the feature to show the contents of an excel, when user drops an excel file that contains wedge co-ordinates by creating hot areas in **HTML** and **JQuery** .
* Display of axis legend (origin) for discharge and chutes module are enabled with **3D animation library** (ThreeJS).
* Enabled dynamically rendering of inserts based on the user input for High and Low lifters for 3D Mill module.
* Provided feature to save/upload the discharge and chutes mesh geometry in Metso DEM file format.
* Used the Angular Switch to toggle certain mesh geometry file options and used the bootstrap dark theme to display the file information.
* Created a new way of generating bitmap image files by moving the dat files into sub folders for faster post processing with **PHP** and **Phalcon**. This approach will run/execute multiple copies Mill plot 3d (image creation engine) for every 300 dat files.
* Updated the code to alert user when particles data exceeds 100% and prevents user to save until the particles data is correct using **Toaster JS**.

**Environment**: WAMP (Windows, Apache, MySQL and PHP), HTML5, CSS3, LESS, jQuery, Angular 1.6, Three JS, Babylon JS, Phalcon, Task Scheduler, Toaster JS.

**Sr .Net Programmer, Optum, MN Nov 2016 – Dec 2016**

**Project Name: HEDIS Reporting Tool**

**Responsibilities:**

* Began reading ramp up documentation, used the application and studied the code to understand the business process of the Submission module.
* Did analyze the code for Single Report Generator class to write unit test cases. Wrote code for unit testing of the method SingleReportProcessRequest that uses Amazon Web Service, Async process and used LINQ and Moq, XBehave, Fluent Assertion testing framework to create mock objects with Given When Then pattern.

**Environment**: ASP.NET, MVC4, HTML5, CSS3, LINQ, Entity Framework, Log4Net, Oracle, Simple Injector, Castle, Fluent Assertion, Xbehave, XUnit, Moq, Amazon Web Service (AWS).

**Sr .Net Programmer/Analyst, Social Security Administration, MD Aug 2007 – Jun 2016**

**Project Name PFS - Policy Feedback System**

 **CAL - Compassionate Allowance**

**Responsibilities:**

* Involved in the process of requirements gathering from customer, reviewing of given detailed functional requirement documents and communicated with customer to clarify and confirm any questions regarding the requirements.
* Provided the timelines (ETA) to customer and updating the development process state. Analyzed the DFR functional requirement document and created task list for tasking the development team.
* Tasking and allocating work and time to the team (9 members) to put development process on cruise control and handle any roadblocks and dead ends.
* Mentored and guided the team to complete the development process on or before the estimated timelines. Reviewed the code to ensure adherence to norms defined and consistency throughout the application. Participated in the unit testing and validating the application functionality with respect to functional requirements’ document provided.
* Architected and implemented a solution for Policy feedback management information reporting (ePFS) application in collaboration with customer and their guidelines.
* Architected and developed a common solution/module to export the multi-row data grids (asp.net web) to excel by pivoting into single row.
* Refactored the existing code and created base classes to simplify and reduce the code of data access layer.
* Designed and developed the Impairment Summary, Body System and Claim Details reports in C# (ASP.Net web form, Master Pages, Grids) with custom hierarchical grid layout.
* Designed and developed a common user control bar that provides search filter selections, exporting the grids to excel and printer friendly view in all reports and by dynamically enabling/disabling the controls to be used in a particular report.
* Provided prototype to draw charts to show the disability information.
* Designed and developed a module for interactive Charts to provide functionality to drill down, navigation to detail report and on the fly popup charts to show breakup using ASP.Net forms, User controls, Dundas Charts.
* Provided the necessary documentation and work products for every release of each application. The work product document provides architectural, technical and functional information implemented during the release cycle.
* Ensuring quality and timely delivery of the work as stated in the Detailed Functional Requirement document.

**Environment**: .NET Framework 3.5/2.0, ASP.NET, C#, ADO.NET, JavaScript, SQL Server 2008, Visual Studio 2005, IIS, MKS, XML, HTML, IE 6/7, Cute Text Editor, Rapid Spell Checker, Dundas Charts/Gauge Enterprise.

Information Intellect, TX Mar 2007 – Jun 2007

Sr. Software Engineer

**Environment**: Agile Methodology, .NET Framework 2.0, ASP.NET, C#, AJAX, ADO.NET, NUnitASP, JavaScript, SQL Server 2005, Visual Studio 2005, IIS, VSS Remote Client, XML, HTML, Rational Rose, IE 6/7, Firefox 2.0, Intersoft Solutions WebGrid, LLBL Gen O/R Mapping Code Generator, BugZilla.

NBC Universal, NYC

**Jun 2004 – Dec 2006**

Sr. Software Engineer

**Environment**: .NET Framework 1.1, ASP.NET/C#, ADO.NET, Win Forms, .NET Remoting, SQL 2000, Visual Studio 2003, IIS, VSS, ERwin, Visio, Rational ClearQuest, Crystal Reports, XML, HTML, Infragistics UI Controls, Dundas Chart Control, MS Application Blocks.

**CT Corporation System, NYC**

**Sep 2003 – May 2004**

**Sr. Programmer/Analyst**

**Environment**: .NET Framework 1.1, ASP.NET, C#, ADO.NET, Web Forms, ASP, VB, HTML, XML, COM+, IIS 5.0, Visio, Oracle 8.1.7/9i, PL/SQL Developer, TOAD, SQL 2000, VSS

Verizon Communications, TX

**Feb 2003 – Aug 2003**

 Sr. Programmer/Analyst

**Environment**: .NET Framework, ASP.NET, C#, ADO.NET, Web Forms, ASP, VB, HTML, XML, XSL, COM+, Web Services, SOAP, Visual InterDev, IIS, SQL 2000, VSS

JP Morgan Chase, NYC

**Jan 2002 – Jan 2003**

Sr. Software Engineer

**Environment**: .NET Framework, ASP.NET, C#, ADO.NET, ASP, VB, HTML, XML, COM, JavaScript, VBA, ADO, Windows API, SOAP, Visual InterDev, IIS, Sybase ASE 12.5, CVS

Merrill Lynch, NJ

**Jun 2001 – Dec 2001**

Sr. Programmer/Analyst

**Environment**: VB, ASP, COM, IIS, VBScript, JavaScript, Oracle, PL/SQL, HTML, DHTML, XML, XSL, Visual InterDev, Windows NT, pcAnywhere, PVCS

Salomon Smith Barney, New York

**Oct 2000 – May 2001**

Sr. Software Engineer

**Environment**: VB, ASP, VBScript, JavaScript, HTML, DHTML, IE 5, NS 4.7, SQL 6.5/7.0, IIS, Visual InterDev, ERwin, DBArtisan, Home Site, Windows NT.

**Jun 2000 – Oct 2000**

Prudential Securities, New York

Sr. Programmer/Analyst

**Environment**: ASP, HTML, DHTML, COM, VBScript, JavaScript, SQL Server 7.0, Crystal Reports 7.0, Windows NT.

**EDUCATION / CERTIFICATIONS**

Bachelors in Comm./Math, Bangalore University, India 1987

Post-Grad Diploma Computer Applications, NICE Computer Education. 1992

MCSD - MICROSOFT CERTIFIED SOLUTION DEVELOPER

MCP - MICROSOFT CERTIFIED PROFESSIONAL in

* Exam 70-176: VISUAL BASIC 6.0: Desktop Applications.
* Exam 70-175: VISUAL BASIC 6.0: Distributed Application Development.
* Exam 70-029: MS-SQL SERVER 7.0: Designing and Implementing Databases.
* Exam 70-100: Analyzing Requirements and Defining Solution Architectures.