



Ranga
Contact: Cathy Kopa
UNIVERSAL Technologies
518-542-6312
Ckopa@univstech.com

Professional Summary:

Microsoft Certified Senior Developer/Solutions Specialist with experience delivering complete N-tier enterprise systems utilizing the latest .NET technologies for NY City government and private sector organizations.

- Technically strong Senior Developer/Solutions Specialist with hands-on development experience using **.NET/C#/VB.NET/SQL/JS, Angular 7, MVC 5/6, REST Web API, Bootstrap 4, and .NET 4.52/Core 3.1.**
- Skilled in delivering all phases of the software development lifecycle of mission critical New York City government applications including the analysis, design, development and testing.
- Proficient working with web applications deployed to Azure using (Azure Platform as a Service).
- In-depth experience building interactive web and client/server applications using a broad spectrum of .NET Technologies and tools.
- Expertise leading projects including **managing meetings with business users**, translating business requirements to software requirements, time estimation, monthly progress reporting and **providing guidance to other programmers.**
- Extensive experience in large driven application projects including building a new web-based **data dictionary portal** and migrating data from different data sources.
- Adept building relational databases in **SQL Server** using SQL **stored procedures**, linked servers, data migration using (SQL server DTS) **SSIS packages** and creating dashboards using JavaScript charting controls.

.NET/Web Technologies	ASP.NET 1.1/2.0, MVC 4/5/6, Entity Framework 5/6, LINQ, ADO.NET, Web API/Web API 2, VB.NET, REST, SOAP, Angular 2/4/5/7, IIS 6/7, Visual Studio 2005/2010/2013/2015/2017, Visual Studio Code, Plunker, Web Services, .NET 4.5.2/.NET Core 3.1, Azure, WinForms, Core 2/3, Axis Java, AJAX, ODP.NET,
Languages/Scripting	C#, VB6, npm, jQuery, CSS, HTML/HTML5, XHTML, XML, XSL, CAML, JSON, VBA, SQL 2012, TypeScript, DHML, Java
Databases & Tools	SQL Server 2000/2008/2012/2014/2016, T-SQL, PL/SQL, Oracle 8i/9i, MS Excel/Access 2003, SSIS, SSRS 2008, Postgre SQL
Development Tools	Bootstrap, imgNotes2, Leaflet.js, SharePoint Designer, N-Tier, QlikView, SharePoint 2003/2007/2010/2016, WSS, Kendo UI, Node.js, jQuery UI/Mobile/Grid, Active Directory, Custom Controls, Erwin, InfoPath 2003
Other Tools	Windows 2003/2008/2012, Team Foundation Server (TFS), MS Power BI, WinSCP, MOSS 2007/2010/2016, MS CRM Dynamics 3.0/4.0, Windows NT, Pega, BizTalk 2004, Solaris, ArcGIS, GIS Geo coding

Education/Certifications:

- BE in Mechanical Engineering, University of Madras, Chennai, India
- Microsoft Certified Solutions Developer
- Certified Scrum Master (CSM)

- Microsoft Certified Application Developer .NET C# (VB, MCAD.NET)
- Microsoft Certified .NET, SQL
- Microsoft Certified Technical Specialist – Windows SharePoint Services 3.0, Application Development

Professional Experience:

Client: NYC Department of Transportation, New York, NY

Mar 2018 – Present

Title: Senior Application Developer

Project:

Developed web-based Vision Zero Projects including Traffic Fatality Tracking and Safety Viewer application. Responsibilities include programming, **managing meetings with the business users**, translating business requirements to software requirements, time estimation, monthly progress reporting and **providing guidance to other programmers**. The web-based application included dashboards and charts and reports were architected using REST based C#/EF5/ASP.NET Web APIs with **SQL Server/PostgreSQL** as the database and Angular 7 as client-side JavaScript framework, Bootstrap 4. ArcGIS was used to display street accidents and fatalities maps using multiple layers with GIS geocoding and ESRI JavaScript. Full-stack development included database development (SQL server, Postgre SQL) complex queries and stored procedures (including spatial), EF model design, C# MVC Web API, front-end coding using HTML5, jQuery and dashboard charts using JavaScript and PDF reports using SSRS (RDLC).

Responsibilities:

- Perform detailed **application design, coding** and **unit/integration/performance testing**.
- Develop and integrate complex application modules using **.NET 4.0/4.5, ASP.NET, C#, n-Tier architecture** and XML-based web services and application development tools such as Microsoft Visual Studio 2013/2015 and SQL Server Management Studio.
- Implement web-based user interfaces in .NET using Razor/MVC3/MWM architectural patterns, AJAX, HTML5, CSS and JavaScript.
- Perform/manage relational database design, normalization, **T-SQL/stored procedures** with **SQL Server 2014/2016, Postgre SQL** PostGIS.
- Develop **T-SQL/stored procedures, generate reports** using Microsoft SQL Reporting Services (**SSRS**) and develop **SSIS packages**.
- Integrate mapping APIs and web services to build interactive map-based applications.
- Perform configuration management, continuous integration, version control, testing and document management using tools such as Microsoft Team Foundation Server, Microsoft Test Manager, Team System and SharePoint Server.
- Be responsible for technical quality of the implemented code base and fully understand the implemented design.
- Understood and followed the Software Development Life Cycle (SDLC) processes in a structured environment, including Waterfall, RUP and Agile development methodologies.
- Collaborated with architects, senior developers, business analysts and development teams for design, development, testing, implementation, and support of application projects.
- Participated in software testing process, including identification and resolution of defects.
- Participated in and contribute to formal/informal technical reviews and presentations.
- Explored new ideas and initiatives that encourage innovation.
- Took inputs from reporting manager(s) and appropriately apply comments and feedback.
- Estimated the time required to complete development tasks.
- Collaborated with diverse teams
- Demonstrated the ability to cooperate with a variety of people and achieve results.
- Initiated, develop and maintain effective working relationships with team members.

Environment:

Angular 7, Agile, RUP, Waterfall, C#, Microsoft Test Manager, MS SharePoint, **SSRS, SSIS, SSMS,** JavaScript, T-SQL, CSS, HTML5, AJAX, .NET 4.0/4.5, Razor, MVC3/4, MWM, Microsoft Visual Studio 2013/2015, ASP.NET, XML, Web Services, Postgre SQL, PostGIS, Web API, jQuery, SQL Server, Team System, REST

Client: Ohmsai Inc., CT
Title: Senior Application Developer

Dec 2017 – Mar 2018

Responsibilities:

- Developed an automated plant monitoring system using **C#, MVC, Web API 2**, Core 2 and Angular 5 custom designer screens to allow drag and drop of HMI widgets.
- Responsible designing application based on analysis of the requirement specifications.
- Added widgets to dashboard for monitoring machine status data from PLCs.

Environment:

C#, MVC 6, Web API 2, Core 2, Angular 5

Client: NYC Dept. of Design & Construction (DDC), Queens, NY
Title: Senior Application Developer

Jun 2008 – Oct 2017

Project #1: Oracle Primavera SKIRE[®] Online Construction Management Portal

Responsibilities:

- Developed business process customizations and custom **web services**, performed data migration, and was responsible for deployment and maintenance of Oracle Primavera SKIRE[®] Enterprise system.
- Customized Budgeting, WBS, Fund sheet, Cost sheet, Estimations, Procurement, Contracting and Payment modules.
- Developed custom .NET assemblies and **Web Services** using **C#** and Visual Studio.
- Migrated project data (for all NYC boroughs) from legacy systems to new system using Axis Java **Web Service** and **SQL Server DTS (SSIS and ETL)**.
- Created **SQL stored procedures**, views, and custom .NET assemblies for **web service** integration.
- Responsible for utilizing full software development lifecycle to create scalable, distributed applications in **N-tier** architecture using **object-oriented programming concepts**.
- Continually analyzed and upgraded application modules to newer technologies adding new and improved functionality.

Environment:

.NET, Web Services, C#, Visual Studio 2010/2015, Axis Java, SQL Server 2008/2012, SSIS

Project #2: CP Tracking

Responsibilities:

- Built a **web based ASP.NET MVC and Entity Framework** application using Visual Studio, **TFS, Web API, jQuery, Bootstrap**, LINQ, C#, and **SQL Server**.
- Designed and developed a **custom workflow** for process tracking and a dashboard using JavaScript charts and **SSRS reports** to be hosted on local intranet and later deployed to Azure Cloud.
- Developed Benchmark, a web based **ASP.NET MVC application** hosted in Azure Cloud.
- Developed custom data migration routines using **SQL stored procedures** and **SSIS packages** to synchronize data about project information, schedules, and fund allocations from legacy applications to PIMS to Azure SQL database.
- Used custom linked **SQL servers** and custom **SQL stored procedures** and packages with logging.

Environment:

ASP.NET MVC, Entity Framework, Visual Studio 2015, **TFS, Web API, jQuery, Bootstrap**, LINQ, C#, SQL, JavaScript, **SSRS**, Azure Cloud

Project #3: NYC DDC Data Feeds

Responsibilities:

- Developed a **REST based Web API interface** using **C#, ASP.NET MVC**, and Entity Framework for publishing public bid/vendor/other data feeds using Visual Studio.
- Developed several RSS Feeds and utilities for scheduled data feed downloads.

Environment:

REST, Web API, C#, ASP.NET MVC, Entity Framework, Visual Studio 2013

Project #4: Data Dictionary for SKIRE® Primavera Oracle's Primavera

Responsibilities:

- Developed a new web-based **data dictionary portal** using **ASP.NET MVC 5** and **Entity Framework** to query Oracle Primavera and display and search all data elements, formula fields, custom forms and versions used by DEV, UAT, PROD environments.
- Data dictionary was used to compare BPs, forms and data elements across different deployed environments and flag the incorrect/missing versions of business process or data elements.

Environment:

ASP.NET MVC 5, Entity Framework

Project #6: NYC FMS Data

Responsibilities:

- Integrating NYC FMS data using WinSCP and **SSIS packages** to SQL Server; FMS data was used for matching FMS and PIMS payments using budget code, fund code.
- Generated comparison reports using **SSRS** and for online dashboard reports using QlikView.

Environment:

SQL Server, SSIS, WinSCP, SSRS, QlikView

Project #7: Cubical Reservation System

Responsibilities:

- Developed a **web-based application using ASP.NET, VB.NET, Bootstrap, MVC, Entity Framework, Web API**, Visual Studio, and **Angular 2** for Cubical reservation for offsite users.
- Developed custom Contract Procurement Application using **ASP.NET** and **SharePoint workflows**.
- Responsible for designing and developing two complex state machine **SharePoint workflows** called CSB workflow (Competitive Sealed Bid and Professional Procurement flows) for Bids and Contract registration process.
- Wrote the SharePoint workflow using Visual Studio workflow designer and **VB.NET**.
- Developed portal using WSS and MOSS.
- Responsible for designing and developing **SharePoint sites**, custom web parts, master page customizations, branding, workflows, setting group permissions, and integration of legacy in-house applications.

Environment:

ASP.NET, VB.NET, Bootstrap, MVC, Entity Framework, Web API, Visual Studio 2010/2015, Angular 2, SharePoint, WSS, MOSS 2007/2010/2016

Project #8: Active Directory Connector

Responsibilities:

- Developed an AD connector using Visual Studio to synchronize SQL personnel database to AD; the connector allows updating AD attributes, adding to proper OUs, enabling/disabling users based on personnel **SQL Server** database.

Environment:

Visual Studio 2015

Client: Workcentives, Inc., San Rafael, CA
Title: Senior Consultant

Jan 2008 – May 2008

Project: Lynx Dashboard Project for Microsoft Corp, Redmond, WA

Responsibilities:

- Responsible for the implementation of the project including loading data from various sources including Excel files, displaying several pivot table reports using MOSS, SQL Server and Excel, and **web services** into a reporting **SQL Server** database.

Environment:

MOSS 2007, SQL Server 2005, MS Excel 2007

Client: Credit Suisse, New York, NY

Apr 2007 – Nov 2007

Title: Tech Project Lead/Developer

Project – Investor Portal: Develop aggregate data from Investran® and various other in-house legacy systems and display on the portal using web parts.

Responsibilities:

- Created a prototype system and evaluated MS CRM Dynamics before deciding on MOSS and custom web parts.
- Developed SQL data model using ERwin.
- Responsible for designing the portal and architecting the solution using custom **.NET libraries**, web parts and MOSS.
- Designed and programmed a custom framework using custom class libraries and web parts used in MOSS.
- Created easily extensible model using base web part to implement all the web part connections and page level sharing of data by all web parts. All parts used in the system were extended from base web part and customized further.
- Programmed custom web parts with personalization, connectable and non-connectable web parts created for MOSS.
- Performed MOSS customizations, backup and deployment of MOSS backup and web parts deployment.
- Integrated Window NT single sign-on from portal to other third-party BPM workflow products (Pega) used in the project.
- Created MOSS single sign on integration with Pega running on BEA web-logic and Java using web proxy.

Environment:

C#, .NET Framework 2.0, ASP.NET 2.0, AJAX, ADO.NET, Active Directory, Web Services, HTML, DHML, XML, XSL, Custom Controls, JavaScript, Visual Studio 2005, Team Foundation Server (TFS), Agile, MOSS 2007, MS CRM Dynamics 3.0, Erwin, Windows NT, Pega, Java

Client: Workcentives, San Rafael, CA & Chennai, India

Apr 2006 – Mar 2007

Title: Tech Lead/Architect

Project – ACL Bank Thailand (developed as an off-shore project with sites in India and Thailand) e-Banking System: Online internet banking portal

Responsibilities:

- Responsible for leading the programming efforts at an offshore site (Chennai, India), making technical decisions, and directing and mentoring Offshore Team members.
- Programmed several modules and created custom assemblies with e-Banking name spaces for providing all the functionality for different sections of the system.
- Developed the web portal using **ASP.NET** with bilingual support for English and Thai to allow for online account viewing, making fund transfers and form-based submission for other services.
- Wrote custom classes in **C#** and the **ASP.NET** custom controls as part of the e-banking name space to consume **web services** from the core banking system (Temenos) running on Solaris, and present the data in a much user friendly manner on the web portal using XML and XSL transformation.
- Developed a **custom web service** for interfacing with MS CRM Dynamics (MSCRM).

- Implemented a complex workflow for online user creation and approval using MSCRM.
- Wrote custom classes using C# for implementing the workflow that involves creating custom CRM entities and activities.
- MSCRM web services and metadata services were used within the custom classes using C#.

Environment:

C#, .NET Framework 2.0, ASP.NET 2.0, ADO.NET, Active Directory, **Web Services**, MS CRM Dynamics 3.0, **SharePoint** 2003, InfoPath2003, BizTalk 2004, **HTML**, DHML, XML, XSL, JavaScript, XML HTTP, **AJAX**, Visual Studio 2005, **Team Foundation Server (TFS)**, **Agile**, WinForms, IIS, Solaris

Client: UBS, Stamford, CT

Feb 2005 – Mar 2006

Title: Senior Programmer

Project: Deal Origination System for the Energy group

Responsibilities:

- Developed and deployed a new **ASP.NET web-based** Deal Origination System for Theoretical Value and Sales credit calculations for all originated deals.
- Built the system an **n-tier application** using **ASP.NET**, Oracle as the database, and ODP.NET as the data access layer.
- Wrote custom class libraries on the server side to implement the system and custom packages in Oracle with many procedures and functions and contained the main logic for the system.
- Implemented web based charts using OWA10.
- Implemented and deployed the system in an IIS server farm using NLB.
- Other projects included pipe-line, market data feed applications, web scrapping applications and evaluating Bentex market data feeds (server-side IIS, SQL 2000, and Excel and WinForms) for the Gas & Power desks.
- Developed taskbar based WinForms applications developed for market data alerting applications for MISO and Genscape.

Environment:

ASP.Net 1.1, Oracle 8i/9i, ODP.NET, DHTML, IIS, SQL 2000, DTS, OWA for Charting, Excel 2003, WinForms

Client: New York Mercantile Exchange (NYMEX), New York, NY

Oct 2004 – Jan 2005

Title: Technical Specialist

Responsibilities:

- Customized and deployed Sharepoint 2003 portal server for the Systems group.

Client: UBS (Trade Capture Deployment), Stamford, CT

Apr 2004 – Aug 2004

Title: Senior Programmer

Responsibilities:

- Responsible for the design, development and deployment of a .NET based document management system using **SharePoint** 2001 interfacing with the TradeCapture's trading system.
- TradeCapture was customized to the requirements of UBS and was built using C# for all the libraries and **ASP.NET** for the interface.
- Trading system interfaces using web services.

Client: Sempra Energy Trading, Stamford, CT

Sep 1999 – Mar 2004

Title: Senior Programmer

Project #1: EIPP (Electronic Invoicing Presentment & Payment)

Responsibilities:

- Responsible for the design, development and deployment of modules for (EIPP) a large **Enterprise level n-tier project** using Windows 2000, IIS 5 Server farm, and App server

clustering, **SharePoint** 2001, Biztalk, Oracle 9i and full **C# ASP.NET** and detailed .NET middleware object assembly implementation.

Project #2: Internal Company Instant Messenger

Responsibilities:

- Designed and developed an internal messaging product for use within Sempra using VB6 to allow company-wide instant messaging with conferencing, chat groups and Yahoo type look and feel with encryption.
- Principal designer and developer for both the server and client with automatic client version upgrade and rich UI and emoticon features.
- Server written in Java deployed on a 2 node cluster.

Client: Warrantech Corp, Stamford, CT
Title: Senior Programmer

Oct 1998 – Sep 1999

Responsibilities:

- Developed intranet and internet web site.
- Converted the client server apps to Oracle – ASP based intranet Web apps.
- Developed the Online e-Commerce web site www.repairguard.com for selling home warranties.

Environment:

Oracle 8.05, SQL Server 6.5, Visual Studio 6.0, VB 6.0, Mapmaker, PayLinx

Client: Indymac and Affiliates, Pasadena, CA
Title: Senior Programmer

May 1996 – Oct 1998

Projects: Credit Report Server and Automated Underwriting Server

Responsibilities:

- Developed a TCP/IP based credit report server application used to pull credit reports for borrowers requesting loans.

Environment:

Distinct TCP/IP, VB 4.0 32 bit, SQL Server, DAO

Client: Ceridian Employer Services, Atlanta, GA
Title: Programmer

Oct 1995 – May 1996

Project: Customer Installation Toolkit

Environment:

MS Windows 3.1/NT/95, Visual C++ 1.52, Visual Basic 4.0, MS Access 2.0

Client: Price Water House, Chicago, IL
Title: Programmer

Oct 1994 – Sep 1995

Projects: PW Tax Organizer '94', SEC 482 Pricing Policy & Fixed Asset Management System for Windows project VB 3.0

Environment:

Windows NT 3.51, Visual C++1.52 MFC, Visual Basic 3.0, Raima Data Manager, MS Access 5.0, Jet Forms

Client: Indian Space Research Organization, Satellite Center, Bangalore, India

Sep 1986 – Oct 1994

Title: Senior Engineer

Responsibilities:

- Responsibilities included developing software applications for testing, control, automation database and other applications.
- Developed software of MS Windows based applications using Turbo C/C++.