**Kranthi Kumar Reddy Vangala**

**Lead/Architect .NET Fullstack Developer**

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**Professional Summary**

* **Over Seventeen years** of diversified experience in analysis, design, development, implementation and testing of variety of web applications, windows applications, web services and **client / server applications**.
* Extensive Experience in .Net Technologies, **Angular**, **Typescript**, **ExtJs**, Jasmine using Karma, **.NET Framework (2.0, 3.0, 3.5,4.0 & 4.5), .Net Core (3.1, 6.0),** Entity Framework Core, MS Visual Studio 2003/2005/2008/2010/2013/2017,2019,2022, **ADO .NET**, **ASP.NET**, **.Net Core**, **C#, VB.NET, T-SQL, HTML 5**, **CSS**, **WCF Services, SOAP, Remoting, Windows services, Generative AI**.
* Good experience in to **Product Development** and exposure to BPM, healthcare and telecom domains.
* **Microsoft Certified Azure fundamentals (AZ-900) and Azure AI fundamentals (AI-900).**
* Experience working with service-oriented architectures by using Web services Methods (SOA), WCF services, Restful Services (Web API).
* Experience in developing and maintaining applications into **Microsoft azure** environment with **azure cloud services** extended support.
* Good experience in developing and maintaining **Windows Services.**
* Expertise in all the phases of Software Development Life Cycle (SDLC) including requirements, analysis, design, implementation, integration and testing, deployment and maintenance
* Worked on JavaScript stack **Angular 13, ExtJS, JQuery, JQuery UI, Typescript, MindFusion JS Diagram**.
* Expert in designing **Database, Normalization of Relational database,** writing Complex **queries, Stored Procedures, Functions, Triggers**, **Views**, **Joins** and **Indexes** using **T-SQL** SQL Server.
* Expertise in developing **GUI** (Graphical User Interfaces) using Client/Server (**Win Forms**) and Web based (**Web Forms**, ASP.Net) application development.
* Proficient in **Prompt Engineering** techniques, adept at harnessing the capabilities of **Azure Open AI** and **ChatGPT** to design and refine prompts for **Generative AI** models. Experienced in crafting effective prompts to guide AI-generated outputs towards desired outcomes, optimizing performance and enhancing usability across applications.
* Experience in design and implementation of **CI/CD** pipelines in azure devops to automate build, test and deployment processes.
* Experience with configuration and setup of IIS. Experience in design, development and deployment of End-to-end Client-Server Business Solutions.
* Experience in using **TFS, VSS, MKS, SOS** for Version Controlling.
* Good experience into Research and Development.
* Experience in working with NUnit and MS Test Framework for unit testing.
* Experience in using SVN, Team Foundation Server, Microsoft Visual SourceSafe for Version Controlling.
* Possess strong analytical skills, excellent communication skills and a good team player.
* Excellent Planning and problem-solving skills, able to work alone as well as in team with minimal guidance.
* Commitment and conformance to delivering quality applications adhering to deadlines
* Ability to Manage and deliver results on multiple tasks by effectively managing time and priority constraints

**SKILLS AND KNOWLEDGE**

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| --- | --- |
| **.Net Technologies** | **C#.NET,** ASP.NET Web Forms,ADO.NET, SQL, PL/SQL, XML, JSON, LINQ, **ASP.NET WebAPI, VB.NET** |
| **UX Technologies:** | HTML5, ExtJS, AJAX, **Angular 13**, Mindfusion JS Diagram, JQuery, JQuery UI, **JavaScript**, **Typescript**, CSS |
| **RDBMS** | **SQL server2000,2005, 2008, 2017 and 2019** |
| **Cloud Technologies** | **Microsoft Azure** |
| **AI (**Artificial Intelligence**) Tools** | **Azure Open AI, Chat GPT** |
| **Methodologies** | Agile, Waterfall |
| **Operating Systems:** | Windows 11/10/7/XP/2000/2003 server |
| **IDE** | Visual studio 2010/2012/2015/2017, SQL Management Studio, Visual studio code |
| **Version Control Tools:** | TFS, GIT, SourceTree,VSS, MKS, SOS |
| **Bug tracking tools** | Jira, Fogbugz, Eventum, TFS |
| **Deployment Tool** | WISE Installer |

**CERTIFICATIONS**

* Microsoft Certified: Azure fundamentals (AZ-900). Credential ID: CF0F40AADD03214A
* Microsoft certified: Azure AI fundamentals (AI-900). Credential ID: 5FCFDA09210620FD

**EDUCATION**

Bachelor Of Technology- Electrical and Electronics Engineering, JNTU.

**WORK EXPERIENCE**

**Integrated Case Management (ICM)**

**Client: Optum (UnitedHealth Group) July 2024-Till date**

**Wipro – Implementation partner**

**Role: Lead/Architect Software Engineer**

ICM is the case management system used by united healthcare Nevada case users, care givers, providers and auditors to track and plan a member’s comprehensive care of services provided by Nevada market health plans and their network of providers.

**Responsibilities:**

* Involved in Design, Coding, Implementation and Testing of the modules and features
* Developed Restful web APIs using **ASP.Net core** 6 and **ASP.Net OWIN** framework and Entity Framework.
* Developed user interface using **Angular17** and bootstrap, footable libraries
* Worked on secret scanning alerts remediation using **HashiCorp Vault**
* Worked on remediation of code scanning vulnerabilities
* Implemented authentication and authorization with **Identity Server** using and OpenIdConnect and OAuth2 protocols for authentication and authorization.
* Worked on Setting up Azure DevOps pipelines for multistage deployment environments for different applications.
* Work closely with DevOps team and assist them in troubleshooting deployment issues.
* Worked on cross site scripting issues in the application.
* Used JIRA for work allocation, user stories, backlogs, and sprint boards. GIT for source control.
* Troubleshooting the issues using SEQ Logging.
* Integrated SimpleInjector in to Web Forms to Support Dependency Injection.
* Performed **Code Reviews** of the team to ensure quality of code.

**Environment**: C#, .Net Framework 4.8, ASP.NET core 6, Windows services, HTML5, Angular 17, Javascript, Jquery, Json, Microsoft Azure, Footable, SQL Server, Web API, .Net Core, Git, SourceTree, SimpleInjector, Entity Framework, SEQ log, Jira, Git, Hashicorp Vault, Visual studio 2022

**Product: Total Agility May 2014 –Jan 2024**

**Client: Kofax**

**Role: Principal Software Engineer**

Kofax TotalAgility is the world’s first unified smart process application development and deployment platform. TotalAgility provides an essential link between an organization’s systems of engagement and systems of record to help increase responsiveness to customers and gain competitive advantage in order to better manage and grow businesses while greatly reducing operating costs. TotalAgility combines information capture, business process management (BPM), dynamic case management, collaboration, mobility and analytics to solve the First Mile™ challenges of effectively processing real-time, information-rich customer interactions. It is available as on premise and cloud (azure) deployment options.

**Responsibilities:**

* Involved in all phases of the application development from business requirements analysis, design, development, and testing of the application.
* Responsible for architecture, design, and end to end implementation of the features in the product.
* Assisted in preparation of architectural designs for each of the components that were assigned for development.
* Developed web services using **WCF** and **Web API**s using **ASP.Net Core 6**
* Developed angular application using **Syncfusion angular** components
* Created UI using HML, **ExtJs** framework, **javascript** and **Jquery**
* Developed BPM process diagrams using **MindfusionJS diagram**
* Analyzed Legacy Silverlight application and rebuild the modules using **Angular**
* Written test cases using **Jasmine & karma** framework
* Involved in design and development for re-engineering of the product
* Developed and maintained **windows services** with **WCF streaming** implementation
* Involved in deployment and maintaining of application azure using **azure cloud services extended support**
* Managed Azure Infrastructure **Azure Web Roles, Worker Roles, SQL Azure, Azure Storage** using Azure portal.
* Designed and implemented database schemas, tables, views, indexes, and relationships in SQL server following normalization principles and data modeling techniques
* Involved in creating the product architecture documents
* worked with visual studio testing framework for unit testing of the components in the application
* Implemented **Performance counters** for analyzing the performance of the windows services
* Responsible to work on research spikes, preparing proof of concepts and playback to the business users.
* Worked on the user stories by taking continuous feedback from the business users.
* Preparing estimations for the user stories and assisting team.
* Mentored new Team members and helped them in explaining the architecture and process.
* Utilized **Prompt engineering** techniques with **Azure Open AI and ChatGPT** to optimize usability and functionality across the products **Generative AI** capabilities. Crafted tailored prompts to guide AI-generated output, improving user interaction and overall performance.
* Performed **Code Reviews** of the team to ensure quality of code.
* Work closely with QA team to make sure testing is done with proper test cases.
* Participated in peer review meetings to analyze, verify and validate the Design, Code and proposed solutions to the business problems.

**Environment:** C# , WCF, Windows services, HTML5, ExtJs, Angular 13, Javascript, Silverlight, Jquery, Json, Microsoft Azure, Syncfusion angular controls, Generative AI (Azure Open AI, Chat GPT), SQL Server, Web API, .Net Core

**Product: TotalAgility BPM suite Dec 2010 – Apr 2014**

**Client: Kofax**

**Role: Sr. Software Engineer**

TotalAgility provides a business process management (BPM) platform that enables greater organizational agility. BPM is all about business performance improvement and agility - achieving significant organizational gains through better management of processes. The Platform provides capabilities for process design and simulation, workflow control for managing human tasks, integration tools for linking system activities to processes, and business rules.

**Responsibilities:**

* Worked with **Winforms** applications as well as **windows services** using C# for enhancing existing functionality and features.
* Involved in Design, Coding, Implementation and Testing of the modules and features.
* Implemented asynchronous programming and parallel execution using multi-thread programming concepts.
* Worked with Object Oriented Design (OOD) Patterns while developing the layers in C#.
* writing Complex queries, Stored Procedures, Functions, Triggers, Views, Joins and Indexes using T-SQL in **SQL Server**
* Participating in daily scrum meetings and giving updates on daily basis
* Performing research, creating POC and playback to the business users.
* Troubleshooting the production issues
* Work on the user stories by taking continuous feedback from the business users.
* Providing estimations for the user stories and assisting team members.

**Environment:** ASP.NET 4.0, C# , WinForms, COM+, Visual studio 2010, Eventum, SOS

SQLServer 2005, Oracle 11g, windows 7

**Product: LiquidWare Recorder Mar 2008 – Nov 2010**

**Client: Liquid Spoke Inc, ShoreTel Inc.**

**Role: Sr. Software Engineer**

LiquidWare Recorder is an easy-to-use VoIP call recording software solution designed specifically for ShoreTel IP Phone Systems. The system is designed to fully support ShoreTel’s multi-site capabilities.The LiquidWare Recorder interface can be accessed from anywhere via Internet Explorer and doesn't require any client-side software to record the calls. This uses shoretel's TAPI to record the calls.The key features include scheduling the record, archiving the recording files, Ondemand recording, supervisor initiated recording, Auto archiving the recording files.

**Virtual Observer:** This is a socket connector for the external applications to send the real time data of the ShoreTel IP telephony system. The external applications can connect and subscribe for the events and it sends the real time data like call connected and call completed events.

**Responsibilities:**

* Involved in gathering the customer requirements and implementing them as features.
* Designed and developed several user controls that are used in the entire application using ASP.NET and C#.NET.
* Worked on windows media encoder sdk to compress the wav files to wma files.
* Implemented licensing for the product using open source Activelock licensing software.
* Resolving customer issues.
* Involved in design, analysis and implementation of the application
* Developed and maintained windows services.
* Extensively used ADO.NET to access database object tables, stored procedures, and implemented Data Access Layer (DAL).
* Worked with wise installer to develop and upgrade the installation package.
* Used NUNIT for Testing.

**Environment:** ASP.NET 2.0, C#, WinForms, VSS 2005, Visual studio 2005, Wise Installer, Activelock licensing system, C#, SQLServer 2005, SQL Server 2008 express, windows XP, Windows 2003 server

**Product: Scoring System Apr 2007 - Feb 2008**

**Client: ABIM(American Board of Internal medicine)**

**Role: Sr. Software Engineer**

The American Board of Internal Medicine enhances the quality of health care by certifying internists and sub specialists who demonstrate the knowledge, skills, and attitudes essential for excellent patient care. ABIM certifies one out of every three practicing physicians in the U. S. There are more than 200,000 ABIM Board Certified physicians. ABIM is currently handling certification of 19 sub specialties in medicine such as Cardiology, Gastroenterology, Nephrology, Hematology and other things. Pearson collects administration data and registers candidates for certification. Candidates write the examination in selected centers. All the responses, comments and exam data are collected and sent to ABIM which actually evaluates the candidates’ exam paper. Statistics are used to evaluate a candidates’ exam paper which gives correct score based on the difficulty of the questions answered and it also considers candidates characteristics to evaluate the exam.

**Responsibilities:**

* Resolving the customer issues.
* Troubleshooting the production issues
* Reconciling the available code.
* Preparing software design documents for the enhancements and completing them.
* Attending client calls daily.
* Preparing the technical investigation documents for the cases rose.
* Debugging the code to understand the functionality and preparing functional documents.

**Environment:** **:** ASP.NET 2.0, Pro \*C, Oracle forms, Oracle reports, Visual studio 2005, Visual studio 6.0,: C#,VB.Net , VC++ 6.0, Oracle 10g, windows XP, Windows 2003 server

**Product: Excelicare Mar 2006 – Apr 2007**

**Client: GPASS (General Practice Administration System for Scotland), NHS (national health Services, UK)**

**Role: Programmer**

A clinician friendly multi - disciplinary care record that supports all clinical specialties and offer a complete solution for collaborative care. Excelicare is an electronic patient record and Collaborative solution for healthcare. It maintains all the patient records.

**Formulary Management**: GPs can have a record of frequently used drugs with respective dose, frequency, system, Simple Prescription Indication and message text and that record can be given a name termed as Formulary Name. It can be used in various processes while diagnosing the patients.

**CAM (Clinical Alerts Manager):** In Clinical Alerts Manager alerts will be generated whenever the patient data changes throughout the Excelicare that record will be audited and if that satisfies a predefined rule created by CAM administrator then alert will be generated. The alerts can be of types email, SMS, Fax, Reports. This uses windows service for the process.

**Responsibilities:**

* Involved in design, analysis and implementation of the application
* Wrote various queries and created views and stored procedures, Triggers using SQL
* Developed and maintained windows services.
* Involved in the development of the data application logic using ADO.NET to access the data
* Developed reports using Crystal Reports and done Nunit testing for the modules.
* Developed Migration tools for Data Migration using Serialization and Deserialization.

**Environment:** WinForms,VB.NET, ADO.NET, ASP.NET 1.1 : VSS, visual studio 2003, NUnit, VB.NET, C#, SQLServer 2000, windows XP, Windows 2000