**Rajesh
Full Stack .NET Core Developer**

**Status: USC**

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**PROFESSIONAL SUMMARY**

An **Avid Learner** and **Full Stack Developer** with **8+ years of experience** creating **Web API applications i**n **C#** using **.NET Core frameworks.** Always willing to **learn new technologies** and **working well** with **team members.**

* **Optimized Code** using **OOP principles: Encapsulation** with **private and public modifiers, Inheritance** with **parent/child classes, Polymorphism** with method **overloading** and **Abstraction** with **Interfaces.**
* Experienced in **C#, ASP.NET core, Entity Framework applications development** using **OOP**, **Design patterns** like **model, view, controller** and **Dependency injection.**
* Experienced in working with **ASP.NET MVC** to develop **Controllers, Custom Data Validation attributes, View Models, Views, Partial Views,** and **Action Filters.**
* Experienced in **Object Oriented Design/Development, Object Oriented Analysis and Design (OOAD), Model View Control (MVC) design pattern.**
* Created endpoints in **Web API** to receive **requests** from different **client applications** and **returned** desired **output** back to the **Angular Web server** creating **system** to **system interaction.**
* Used **Postman** as an **online HTTP Client** to test **Web API.**
* Used **Attribute routing and JWT** tosecure **Web API requests.**
* Used **Razor View Engine** to pass **data** between **controllers** and **views** using **methods** such as **View Data, View Bag,** and **Temp Data.**
* Experienced in designing and developing **.Net Web API** to perform **Restful API’s** **CRUD** operations to enable data interaction with the database.
* Utilized **Object Relational Mapping (ORM)** in databases such as **SQL Server** to perform **CRUD** operations and establish data communication**.**
* Optimized **RDBMS** by **normalizing tables, indexing tables, using views, foreign keys, joins, triggers,** and **stored procedures.**
* Experience with **Unit Testing** in testing **different components** using **Unit test** and **Karma.**
* Designed in **Angular** using **interpolation, property binding, event binding,** and **two-way binding, life-cycle hooks,** and **dependency injection** to create **reactive** and **template driven forms.**
* Skilled in **developing Angular concepts: Modules, Components, Templates, Services, Directives** and **Routing.**
* Well-versed in utilizing **Angular Data binding, Component communication, Dependency Injection** to increase their **efficiency** and **modularity.**
* Experienced with **Angular CLI** for creating **Projects, components, Services, Pipes, and Directives.**
* Utilized **Angular Single Page Application** and **router** to **optimize website performance distributing load** to the **front-end browser.**
* Worked in **Agile (SCRUM) environments** with two-week iterations and took part in daily **stand-up meetings** to discuss **progress** and **development** of new **features** in the **sprint.**
* Experienced with **version control tools** like **Git** and **project management** tools like **Jira.**
* Designed and developed **Cloud Service projects** and **deployed** to **Web Apps, PaaS,** and **IaaS.**

**SKILLS CHART:**

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| --- | --- |
| **Languages** | **C#, JavaScript, TypeScript, SQL** |
| **Back End Technologies/Frameworks** | **ASP.Net MVC, Web API, .Net Framework, .Net Core** |
| **Micro Services/Web Services** | **OAuth, Google Maps API** |
| **Databases/ORMs** | **SQL Server, Entity Framework** |
| **Front End Technologies** | **Angular, HTML, CSS** |
| **IDEs Tools** | **Visual Studio 2022, Visual Studio Code** |
| **Project Management/Version Control** | **GitHub, JIRA, TFS** |
| **Deployment** | **Azure** |

**Professional Experience**

**UCLA, Los Angeles, CA December 2021 – Till Date**

**ROLE: Full Stack Developer**

**DESCRIPTION:** UCLA is a branch of the University of California in Los Angeles. SAIT (Student Affairs Information Technology) department of UCLA provides tech support in taking care of the university’s application and network needs. My role in this department is to take care of any bug issues with some of their applications and to upgrade their applications. **Designing and developing** an application for student class registration this included implementing, creating tests and mockups for the new application, and creating new stored procedures for the calls from the back end using **.NET Web API**.

**RESPONSIBILITIES:**

* Collaborated and attended **Daily SCRUM CALLS** to discuss project collaboration and to assess needs in an **AGILE development methodology** maintaining open communication about project status.
* Find and analyze issues reported by the users and implement changes needed to improve application.
* Utilize **Postman** for debugging of backend API.
* Create **Models** and **used Observables** in **Angular Frontend** using the **HTTP Client Service Module** to get and **return** datafrom the **C# .NET Web API.**
* Consumed APIs in **Angular Services** and used **Dependency Injection** to inject **Observables** into **Angular Components.**
* Use **Postman** as a **client** for testing **API calls** and creating **mock API servers** for use during **client development / testing.**
* Experienced in integrating **DFA**-based pattern matching functionality into .**NET** applications, including text search, string validation, **syntax** highlighting, and **syntax** validation features
* **roficient** in designing scalable and resilient .**NET**-based **architectures**, leveraging technologies such as **ASP**.**NET** Core, **MVC**, and **Web** **API** to build robust **web** applications.
* Proficient in configuring and managing **Microsoft** Distributed Transaction **Coordinator** (**MSDTC**) to enable distributed transactions across multiple **databases** and resource managers.
* Used **Git, GitHub, TFS, JIRA** for **version control** and **bug tracking** in an **Agile/Scrum environment**.
* Implement some **business logic database-side** using **Stored Procedures, Triggers,** and **View in SQL Server**
* Developing **stored procedures, views** and **triggers** for implementing the business logic using **SQL Server.**
* Design and develop common backend services w/ **RESTFUL architecture** using **C#, ASP.NET WEB API, Entity Framework.**
* Skilled in extending **DFA** **functionality** with additional features such as error handling, lookahead capabilities, multi-pattern matching, and support for **unicode** character sets.
* Knowledgeable in configuring **MSDTC** security settings, including authentication methods, **firewall** **rules**, and distributed transaction enlistment options.
* Migrate some **Data Handling Functionality** from **Server Side** to **Database** using **Stored Procedures**
* Experienced in creating **Angular Components, Modules** and using **lazy loading** to improve performance.
* Designed **Lazy loaded modules** in **Angular** which are loaded on demand of the user.
* Utilized the get method in **\_HTTP Client module** to **get** and **return Web Services** as **observables** that are later invoked and injected directly into individual **Angular Components** using the **subscribe method** to listen for **observables.**
* Used 3rd party controls like **DevExpress** to improve data presentation in the front-end.
* **Passed data between controllers** and **views using Interpolation, Custom Pipes, Pipes, and Angular built-in Directives.**
* Used **Angular built-in directives** such as **Ng Model** to perform **two-way data binding** between **components** and v**iew files** in a **component** to **update data** created from **user events** in **real time**.
* Experienced in implementing **Angular Services, Pipes,** **guards**, **routing** for seamless navigation and used **RxJs** library for **observable,** **map,** and **subscribe** for fetching data.
* Skilled in implementing domain-driven design (**DDD**) principles and patterns such as bounded **contexts**, **aggregates**, and repositories to ensure a clear and **maintainable** **architecture**.

**Environment: Angular 2+, HTML, C#, ASP.NET, Typescript, CSS, SQL, Web API, Entity Framework, Agile, VS Code, Git, Jira, AZURE, TFS.**

**Wells Fargo, Jacksonville, FL January 2020 – November 2021**

**ROLE: Full Stack Developer**

**DESCRIPTION:**  Wells Fargo is a multinational financial services company that has its headquarters in San Francisco, along with offices in 35 different countries. Working as a backend .NET CORE Developer in the Wealth Investment Management Technology, my mission was to **design** and **develop Applications for Wells Fargo Wealth Management Partners.**  Taking part in designing solutions based on a Wealth Management stated Business Needs, I built Web Pages and Components that both scale and adhere to standard practices. My design tasks included Creating Design Mockups based on stated requirements, **Angular front-end features** and **Web API building supporting services** using **.NET Web API, Entity Framework**. I created a **Financial Services Models** in **SQL Server** that the **Wealth Management Team** could explore **new research** on **Equity Financial Products**.

**RESPONSIBILITIES:**

* Collaborated and attended **Daily SCRUM CALLS** to discuss project collaboration and to assess needs in an **AGILE development methodology** maintaining open communication about project status.
* Gathered and analyzed information, designed, developed, implemented, and deployed the **web application using Angular 2+, HTML5, CSS3, TypeScript, Bootstrap for frontend** and **C# ASP.NET Web API backend**.
* Ensure **Secure Data Handling** through **Data Encryption, Authentication and Authorization** using **JWT, Angular route guards** as well as **CORS, .Net role-based security features** for **front** and **back-end**, respectively.
* Utilize developer tools in **Chrome, MS Edge, Safari for debugging web pages / components** and **Postman** for debugging of backend API.
* Familiarity with **DFA** construction algorithms, such as the subset construction **algorithm** or the state elimination algorithm, for converting regular expressions or **nondeterministic** finite automata (**NFA**) into equivalent **DFAs**
* Create **Models** and **used Observables** in **Angular Frontend** using the **HTTP Client Service Module** to get and **return API** from the **C# .NET Web API.**
* Consumed APIs in **Angular Services** and used **Dependency Injection** to inject **Observables** into **Angular Components.**
* Use **Postman** as a **client** for testing **API calls** and creating **mock API servers** for use during **client development / testing.**
* Familiarity with **MSDTC** performance tuning techniques, such as **optimizing** transaction isolation levels, minimizing transaction scope, and reducing network latency.
* Strong understanding of cloud-native **architecture** principles, with expertise in deploying and managing .**NET** applications on platforms like **Microsoft** **Azure** and **AWS**.
* Skilled in developing **DFA**-based lexical analyzers or **tokenizers** for parsing and analyzing structured text data in .NET applications, such as compilers, **parsers**, and text processing utilities.
* Used **Git, GitHub, JIRA** for **version control** and **bug tracking** in an **Agile/Scrum environment**.
* Involvement in all phases of the **SDLC: Requirement Gathering, Design, Development, Unit Testing** and **Deployment**
* Implement some **business logic database-side** using **Stored Procedures, Triggers,** and **View in SQL Server**
* Developing **stored procedures, views** and **triggers** for implementing the business logic using **SQL Server.**
* Design and develop common backend services w/ **RESTFUL architecture** using **C#, ASP.NET WEB API, Entity Framework.**
* roficient in designing, developing, and deploying **SSIS** packages to extract, transform, and load (**ETL**) data from various sources such as **databases**, flat files, and web services.
* Restructure existing components to utilize **Asynchronous Requests** and **Functions** to improve **data handling** between **front** and **Back End Services.**
* Experienced in modeling **DFA** structures using state transition diagrams, defining states, input symbols, transition functions, and accepting states to represent finite **automata** behavior.
* Migrate some **Data Handling Functionality** from **Server Side** to **Database** using **Stored Procedures**
* Experienced in creating **Angular Components, Modules** and using **lazy loading** to improve performance.
* Designed **Lazy loaded modules** in **Angular** which are loaded on demand of the user.
* Extensive experience in using **SSIS** components including Control Flow tasks, **Data** Flow **transformations**, and event handlers to **automate** complex data integration **workflows**.
* Proficient in implementing Transparent Data Encryption (**TDE**) to encrypt SQL Server databases at rest, providing enhanced security for sensitive data stored in .**NET** applications.
* Utilized the get method in **\_HTTP Client module** to **get** and **return Web Services** as **observables** that are later invoked and injected directly into individual **Angular Components** using the **subscribe method** to listen for **observables.**
* **Passed data between controllers** and **views using Interpolation, Custom Pipes, Pipes, and Angular built-in Directives.**
* Used **Angular built-in directives** such as **NgModel** to perform **two-way data binding** between **components** and v**iew files** in a **component** to **update data** created from **user events** in **real time**.
* Experienced in creating **SPA** using **Angular Front-end framework, Bootstrap, HTML, and CSS**.
* Experienced in implementing **Angular Services, Pipes,** **guards**, **routing** for seamless navigation and used **RxJs** library for **observable,** **map,** and **subscribe** for fetching data.

**Environment: Angular 2+, HTML, C#, ASP.NET, Typescript, CSS, SQL, Web API, Entity Framework, Agile, VS Code, Git, Jira, AZURE.**

**Fresh Market, Jacksonville, FL February 2019 – January 2020**

**ROLE: Angular/.NET Developer**

**DESCRIPTION:**

**Fresh Market,** originally developed by Ray and Beverly Berry in Greensboro, North Carolina, is a gourmet organic supermarket and grocery chain bringing the concept of the open European markets to the US. As a **Front-End Angular** **Developer**, I was tasked writing code in TypeScript for managing the **Angular** **HTTPClient Service Module** where I would develop **models** requesting **Web Services** from the **backend** and **distributing** **services returned** using **Dependency Injection** for consumption in the logic/controller component file of any **local or root app module global component**. My role included working mostly on the **Front-End** creating views while collaborating with **backend developers** who plannedand **implemented triggers** and **functions** used in implementing **online services** such as the **Meal System,** in which inventory items were selected to create meal combinations to be purchased. Using **Model Binding** between **HTML, CSS** and **Controller** **files** in a **component**, I created **tasks that** were **bound** with **models** allowing back-end developers to develop automated reports for inventory status such as item stock and purchase trends, creating tables and views used in managing the meal system and those used in implementing secure connections using **JWT**. Backend development environments include **C#, Entity Framework (Model First context implementations)**

**RESPONSIBILITIES:**

* Enhanced performance using **Angular** **dynamic Single Page Application** that **distributes load** from server to client while providing **MVC structure** for rapid development creating **loosely coupled components** to create **scalable Applications.**
* Expertized in developing **SPA** using **Angular Front-end framework** by utilizing **Routing, Components, Services**, **Angular Material, Observables, guards,** and **Forms**.
* Utilized the **Angular HttpClient Service Module** to get **services** from C# **WEB API and set these services equal to an observable** that is **later injected** into **angular components.**
* Collaborate with **Database Project Team** to plan and build **Data Models Visualizing Project Flow** and Functionality using **Data Modeling Tools**
* Skilled in managing TDE encryption keys and **certificates**, including generation, rotation, and protection of encryption keys to prevent unauthorized access to **encrypted** data.
* Familiarity with **MSDTC** best practices and **recommendations**, including guidelines for transactional boundaries, transactional **durability**, and distributed **deadlock** detection
* Knowledgeable in deploying and scheduling **SSIS** packages using **SQL** Server Agent jobs, ensuring reliable and timely execution of **ETL** processes.
* Optimize **code** in **C#** building **Models that use (OOP) Object Oriented Programming principles: Encapsulation, Inheritance and Access Modifiers, Polymorphism, and Abstraction** and establish **Models** to act as connection between **SQL Schema Databases** with **ASP.NET MVC application** through the **Entity Framework ADO.NET.**
* Build **Optimized Database Queries** by using **Clustered and Nonclustered Indexes**.
* Utilize **Stored Procedures, Tables, Functions, and Views** to complete project goals.
* Provide monitoring and support for **SQL Server environments** using **Powershell, SSMS, SQL Server Data Tools,** etc.
* Work with **Agile Teams** to plan and perform **Relational Data Modeling and Migrations per project requirements.**
* Solved unique and complex problem with board impact on the business.
* Secured database connections by **configuring CORS** and Implemented **Authentication/Authorization Modules** that differentiate regular **Users or Admins based** on **Database Context** by **LINQ** and carry certain variables after signing in with **Session.**
* Experienced in integrating **SSIS** with other Microsoft technologies such as **SQL** Server databases, Analysis Services, and Reporting Services to create end-to-end **BI** solutions.
* Enhanced the Module by providing **API Controllers** that return **JSON/JWT Objects** and **Register these API Services** into **Middleware** inside **Startup.cs.**
* Implemented client-side and server-side validation with **Data Annotation** and **jQuery.**
* Utilized version control **Git system** and push the **Module** into **Github Code Repository.**
* Contribute to all phases of the **Software Development Life Cycle (SDLC)**, gathering needs, designing, developing, troubleshooting, and deployment.
* Participate in daily **SCRUM meetings** collaborating with team members using **JIRA Software** and following **AGILE methodology.**
* Use **Docker and CLI** to containerize and deploy microservices on **Azure** for improved **scalability.**

**Environment: Angular, TypeScript, HTML, CSS, SQL, MS SQL SERVER TOOLS, Azure, VIsual Studio, Visual Studio Code, C#, ASP.Net Web API.**

**Marco Tools, Pompano Beach, FL (remote)                                     May 2018 – February 2019**

***Full Stack Developer***

**DESCRIPTION:** Marco Tools is a professional tool distribution franchise for the automotive and other industries providing automotive tools for mechanics and car enthusiasts.  As a **Full Stack .NET Core Developer**, I work on an Agile Team that develops their website.  I work on the BUY TOOLS Feature which is an E-Commerce Module used to sell tools and is broken down and categorized by Hand Tools, Power Tools, Toolboxes, Diagnostics, and Specialty Tools.   On the backend using **C# .NET** CORE Web API, I developed the Tool Catalog and implemented **JSON/JWT** Token authentication between Angular Front End and API services in the backend.  I also work with account handling and CART modules allowing users to customize purchases and the related backend systems.  On the Front End, I created HTTP Client Services working with JavaScript/Typescript, **HTML, CSS**, creating 2 ways and 1-way model binding within an Angular Component and passed data between components using Services and Parent/Child relationships using decorator input and output methods.  I also built smaller applications using the Razor View Engine.

* Work with a team in an Agile-Test Driven Environment.
* Involved in all aspects of **SDLC** (gathering requirements, design, development, testing, documentation, and deployment.
* Proficient in troubleshooting and debugging **SSIS** packages, identifying and resolving issues related to data quality, connectivity, and performance.
* Use Visual Studio and VS Code IDES for development.
* Create Models and used Observables in Angular Frontend using the **HTTP** Client Service Module to get and return API from the **C# .NET Core Web API.**
* Use Dependency Injection to inject Observables into Angular Component Controllers for Angular Consumption.
* Use Postman as a client for testing API calls and creating mock API servers for use during client development / testing.
* Created smaller Front end development applications for Tool management team using multiple technologies (HTML, CSS, ASP.NET, Razor View Engine)
* Backend development using **C#, .NET** Core, Entity Framework Core
* Perform Unit testing using Selenium / Unknit
* Version control / source code repository using GitHub.
* Created SQL database using SQL Server Management Studio.
* Used Ado.**NET** Database First Approach to create Entity Models and DB Context for work.
* Use Repository Pattern for work order logic from models and allow for expansion.
* Use Data Filtering and **LINQ** to sort and filter data and display work orders based on the required condition.
* Implemented Filters to specify default actions and user authorization.
* Implemented Model Binding and request verification to securely submit form data in Razor Pages; added JavaScript function for confirmation and styling using **Bootstrap** and **CSS**.
* Used View Bag, View Model, Temp Data to pass data from .**NET Core Framework** to Razor View Engine.
* Added search bar that implements data filtering to search for the work orders based on the required condition.
* Used version control with Get.
* Plan and execute Unit Tests using **Selenium**.
* Participated in daily **SCRUM** calls.
* Use **JIRA** project management software to collaborate with the **Agile team.**
* Deploy applications and data servers using **Azure** app services, **Azure SQL server.**

 **Environment:** C#, ASP.NET Core, Angular, Razor View Engine, Entity Framework Core, HTML, CSS, Unknit, VS Code

**Ponce Bank (aka Banc One Corporation) Jacksonville, FL                                          May 2017 - May 2018**

***Full Stack Developer***

**Ponce Bank** is the Puerto Rican bank with the largest number of branches in the US and second largest bank in deposits and number of branches in Puerto Rico during the twentieth century. Founded in Ponce, Puerto Rico, in the early part of the century, it headquartered in San Juan, in 1970 and, 20 years later, merged with Banco Popular Forming Banc One Corporation.  As a Full Stack Developer working with the mortgage loan department, I created a mortgage loan module which allows the Mortgage Loan Officers to submit Mortgages to be traded along with the mortgage documents which other traders can then review the Mortgage and Offer Bids. This application is being developed using the .NET Web API with Angular.

* Utilized **HTML, CSS3, Angular, Typescript, JSON** front end technologies to develop web pages.
* Developed rich and dynamic Single Page Applications **(SPAs) using Typescript, HTML, CSS3,** and **Bootstrap** in an **Angular** component-based **architecture.**
* Used Observables to asynchronously call the server and inject the data to the components.
* Created **Angular** services to integrate backend services by using Angular **HTTP Client** to consume RESTFUL **APIs**.
* Wrote restful **API** service in .**NET Core** using Web API to handle data storage and retrieval from MS SQL Servers.
* Implement Identity mapping with **JWT** for **API** server using Microsoft identity model.
* Utilize triggers and stored procedures to ensure transaction validity on database end and implement event logging and auditing.
* Implemented latest Ecmascript6 (**ES6**) features like arrow functions, constants, block-scope variables, etc.
* Utilize developer tools in Chrome and Safari to debug issues with **web pages.**
* Attended daily Scrum meetings and maintained open communication about project status and issues.
* Used GitHub for version control and **JIRA** for bug tracking in an **Agile/Scrum** environment.

**Environment:** MS SQL, ASP.NET Web API, Angular, ASP.NET Core, HTML5, CSS3, jQuery, JSON, Bootstrap,

Typescript, JWT, Viscose, Get/GitHub, AGILE, JIRA, Microsoft Azure

**Cigna - Jersey City, NJ June 2015 – April 2017**

**Software Engineer**

* Release Engineer for a team that involved different development teams and multiple mutinous software.
* Red hat Linux server and VM build.
* Automate infrastructure using puppet to manage and deploy private cloud instances.
* Setup and Install Puppet workstation, Puppet Server and bootstrapping the Puppet Clients.
* Experience working with AWS Cloud computing and involved in creating AWS instances and deployed Linux and Ubuntu on AWS environment and Expertise in migrating applications onto AWS.
* AWS Cloud platform and its features which includes **EC2, VPC, EBS, AMI, SNS, RDS, EBS**, Cloud Watch, Cloud Trail, Cloud Formation **AWS** Config, **Autoscaling, Cloud Front, IAM, S3.**
* Setup the lifecycle policy jobs to archive the Amazon S3 content to Glacier.
* Experienced in working on DevOps/Agile operations process and tools area (Code review, unit test automation, Build & Release automation, Environment, Service, Incident and Change Management)
* Amazon AWS-EC2 VPC and Virtualization, **VMWare** server Infrastructure build design solutions.
* Resource management like installing packages, managing services needed to run, user management, job setup etc.
* Deploy **Apache/Tomcat** applications using puppet.
* Manage Puppet server in pushing the configure changes to client nodes, monitoring the logs and security.
* Work with Rackspace Cloud computing systems.
* Red hat Kernel OS Patching.
* Red hat kernel upgrades storage provisioning/config and fixes the boot issues using rescue mode.
* Add/Remove VMware disks using the VMware datastores; scan/provision them to red hat Servers.
* Use Veritas CLI operations in creating Disk Groups, Volumes, Plex and Sub disks.

**EDUCATION:**

**University of Illinois, Springfield, IL BS Computer Science.**

**American Citizen**