**Amy Liu)**

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**summary:**

* **8+ years** of web development experience as Full Stack .Net developer in **Microsoft .Net Core**, .**Net Framework**, **ASP.NET MVC5**, **ASP.NET Core Web API**, **Dapper**, **Entity Framework Core/6**, **WCF**, **ADO.NET, C#.NET, Visual Studio, Azure, MS SQL Server.**
* Experience in developing Web based applications and Client-Server technologies using **HTML5, CSS3**, **Bootstrap**, **XML**, **JavaScript, AJAX, Angular 7, React.js, TypeScript and JSON**.
* Proficient in working with **Angular 7** including Directives, Component, Service, Router, Data binding, Reactive Forms and Form Validation to build **Single-Page Applications (SPAs).**
* Develop and implement highly-responsive user interface components using **React.js** and **Redux** including **DOM manipulation** and the **JavaScript object model**.
* Good experience and strong fundamental architecture design included **Data Structure, N-tier architecture, Microservice architecture, design pattern (Dependency Injection), architectural patterns (MVC, MVVM), and algorithms (Searching, Sorting, Recursion).**
* Skilled **in DOM (Document Object Model)** to use in interacting with objects in **HTML, Bootstrap and CSS** for layouts, text, padding, margin, table, background, border and classes.
* Experienced implementing and developing **ASP.NET Core Web API** for **HTTP methods** such as GET, POST, PUT, DELETE and consuming **RESTful / Web API** on Angular services.
* Good working knowledge in **ORM tools** such as **Dapper and Entity Framework Core** like Database First approach and Code First approach.
* Expertise in **Database Design** and **Database Programming** (Stored procedures, Triggers, Packages, Cursors, Indexes, Transaction, Joins, Constraints, T-SQL, PL/SQL, **No-SQL**) using **SQL Server, DB2 and Oracle 11g.**
* Having good knowledge about **testing and debugging the Web API** using **Postman, Fiddler** tool and **unit testing** with **NUnit, FakeItEasy, XUnit, MS test, MOQ and NSubstitute**.
* Experienced in using **version control tools** such as **GIT**, **Team Foundation Server (TFS), TortoiseSVN and GitHub.**
* Working knowledge in **Microsoft Azure platform** for building, managing applications and deploying web applications.
* Hand on experience in designing and deploying **microservices** for a high-performance, scalable, and maintainable with containers for the system.
* Working knowledge in **SDLC (Agile and Waterfall)** phases including Requirement Analysis, Design, Development, Testing of web applications.

**technical skills:**

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| **Languages & Database** | C#, C, Java, Swift, T-SQL, PL-SQL, SQL Server 2012/2014/2016/2017, Oracle 11g. |
| **.Net Technologies** | .Net Core, .Net Framework 4.5, ASP.NET Core Web API, ASP.NET MVC5, Entity Framework Core/6, WCF, LINQ, Dapper, ADO.NET. |
| **Web Technologies:** | Angular 7, React.js, TypeScript, Bootstrap, HTML5, CSS3, JavaScript, jQuery, Bootstrap, AJAX. |
| **Version controls & Testing** | Team Foundation Server, GIT, FakeItEasy, NSubstitute, Postman, Fiddler, NUnit, XUnit, MS test, MOQ, Jasmine, Jest and Mocha. |
| **IDE Tools & Web Servers** | VS Code, Visual Studio 2017/2015/2013/2012, SQL Server Management Studio, Azure, XCode. |

**work experience:**

**Client: Pfizer**

**Location: SFO, CA**

**Project: Pfizer Plan for Medical Care (Dec 2018 - Present)**

**Description:** Pfizer Plan’s clinical services and administrative management capabilities include: Complex Case Management, Disease Management, Utilization Management, Behavioral Health Services, Social Work Support, Preventive Outreach Services, Health Care Information & Analytics Services, Provider Relations.

**Responsibilities :**

* Developed single page application with various web technologies such as **Angular 7, HTML5, CSS3, Bootstrap, TypeScript, ASP.NET Core Web API, Entity Framework Core** according to requirements.
* Implemented Angular 7 using **TypeScript**, **components, two-way data binding, directives, pipes, routing and Observables**.
* Worked on **Angular 7** Routing to enable navigation from one view to the next as customer performs application tasks.
* Used **Bootstrap** grid system to make the user interface responsive and make compatible with mobile devices.
* Used **Web API** to develop back-end application and performed database operations (**CRUD**) through **Entity Framework**.
* Called **Web API functions** based on **HTTP verbs** (GET, POST, PUT, DELETE) in services by using **HTTP** and **Observables**.
* Performed **Code First Approach Entity Framework Core** to provide code flexibility and to have more customization options and full control over the code.
* Participated in **MS Test**(testing), migration and production releases for software upgrades and version upgrades.
* Utilized **MS Test** and **FakeItEazy** framework for **Unit Testing** to write the test cases for the methods for the developed application.
* Fetched medical information and prescription history data using **RESTful services** with **ASP.NET Core Web API, Entity Framework Core**, used **Postman** to test Web API exposed over HTTP.
* Working with **GIT** as a source control for branching, check in and keeping source code up to date.
* Creating **microservices** to process data throughout the application as well as worked in deploying application to **Microsoft Azure Cloud**
* Utilizing tools and services to enable build and design of **microservices** as well as containerize them for the deployment pipeline.
* Worked in **Agile-Scrum methodologies** to ensure delivery of high-quality work.

**Environment:** C#, VS Code, Angular 7, TypeScript, HTML5, CSS3, Bootstrap, Web API, Entity Framework Core, MS Test, FakeItEazy, Postman, GIT, Agile (Scrum), Visual Studio 2017, SQL Server 2016.

**Client: Columbia Mutual Insurance**

**Location: Columbia, MO**

**Project: Pay My Bill (June 2017 – Nov 2018)**

**Description:** Pay My Bill helps doctors to increase the collection, receive faster payment with improved automation. It manages administrative and financial tasks, including registration and scheduling; eligibility and verification; claims, billings and collections.

**Responsibilities:**

* Responsible for designing the ASP.NET application **authentication** using **.NET Framework** and Model View Controller **MVC**.
* Implemented **ASP.NET MVC 5** routing using convention-based and attribute-based routing.
* Worked using **Razor View Engine** to manipulate the data easily on front-end and present data to user.
* Designed and developed shared web pages by using **Partial Views** and **Layout View**.
* Made **AJAX** calls with **jQuery** in order to update the **Partial View** without reloading the whole page.
* Executed the **jQuery** library for visual effects, event handling, and document manipulation.
* Performed **jQuery** plugins for Drag-and-Drop, Widgets, Menus, User Interface and Forms.
* Used Action Filters for implementing user **authentications, authorizations** and role-based security.
* Performed **Dapper** for faster and stable to access data and isolate the **Data Access Layer**.
* Utilized **Dapper** for retrieving data using Models from **SQL Server database** and involved in writing **SQL Queries** based on complex business logic.
* Implemented **CRUD (Create, Read, Update, Delete)** operations to make requests to **the API server** and tested it by using **Postman**.
* Implemented **Unit Testing** through **NUnit** with **MOQ Framework** and created tests for all functions used in the application.
* Used **TFS** to save code changes, perform gated check-ins and to keep track of the assigned user stories.
* **Agile methodology** and **SCRUM** for the development and Responsible for attending daily scrum meetings to accommodate client's requirements.

**Environment:** C#, Visual Studio 2015, ASP.NET MVC 5, Dapper, TFS, Agile (Scrum), SQL Server 2016, JavaScript, HTML, CSS, jQuery, NUnit, MOQ, AJAX, Web API, JSON.

**Client: River Regions Credit Union**

**Location : Columbia, MO**

**Project: Customer CareNet (Dec 2015 – May 2017)**

**Description:** Customer CareNet is a Mortgage application which has multiple modules which are Application Management, Accounting Management, Customer Database, Fee Management.

**Responsibilities:**

* Developed application using **ASP.NET MVC, C#, JavaScript, WCF, HTML5, CSS3, JSON** and **Bootstrap**.
* Implemented CRUD functionality with **Entity framework** in **ASP.NET MVC** and implemented sorting, filtering and paging with **Entity framework** in **MVC**.
* Used C# to design and develop various **abstract classes**, **interfaces**, **classes** to construct the business logic.
* Implemented Serialization and Deserialization of objects and Involved in **unit testing**, integration testing using **XUnit** and **NSubstitute**.
* Implemented **Unit Testing** through **NUnit** with **MOQ Framework** and created tests for all functions used in the application.

**Environment:** C#, ASP.NET MVC, WCF, HTML5, CSS3, JSON, Bootstrap, JavaScript, Visual Studio 2013, SQL Server 2012, XUnit, NSubstitute.

**Client: Veterans United Home Loans**

**Location: Columbia, MO**

**Project: Loan Underwriting Tool (Aug 2014 – Nov 2015)**

**Description:** Loan Underwriting Tool has multiple modules which are Loan Processing, Loan Submission Control, Document Management, Customer Database, Amortization Schedule, Audit Trails.

**Responsibilities:**

* Involved in design and development of web applications with **ASP.NET MVC** and **C# .NET** as programming language.
* Implemented Server and Client-side validations using **HTML, jQuery and Bootstrap**.
* Utilized **WCF SOAP services** to build high performance and secured document retrieval layer to retrieve data from SQL server-based system.
* Responsible for designing the ASP.NET application **authentication** using **.NET Framework** and Model View Controller **MVC**.

**Environment:** ASP.NET MVC, C#.NET, HTML5, Bootstrap, jQuery, WCF, SQL Server, Visual Studio, SOAP and Azure.

**Client: Bank of Jiangsu**

**Location: Jiangsu, China**

**Project: Application Data Centre System (Jun 2013 – Aug 2014)**

**Description:** A web-based application that aims at managing tasks like creating various day-to-day reports, adding and updating users, transaction management, etc.

**Responsibilities:**

* Designed user interface for using **ASP.NET, JavaScript, jQuery, HTML, CSS** and implemented business logic using **C#.NET**.
* Used **ADO.NET technology** to interact with **SQL Server databases** and developed SQL **Queries**, **Stored Procedures** and **Triggers**.
* Used **ADO.NET**connection, command, datasets, data adapter and data reader to retrieve, manipulate and display the information and store the data in SQL Server.
* Implemented the application interface using **Template-driven** and **Reactive form**. Responsible for input validation at the client-side.
* Involved in creating Web API methods based on HTTP verbs for database operations (CRUD) through Entity Framework Core.

**Environment:** Visual Studio, ASP.NET, HTML, CSS, C#.NET, ADO.NET, AJAX, JavaScript, jQuery, MS SQL Server.