**Suraj Patil**

**Full Stack .NET Developer**

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# SUMMARY

* **Full Stack Developer** with **9+ years** of experience in requirement gathering, design, analysis, development, testing and maintenance of N-tier, Web based, Client/Server applications using **Microsoft** tools and technologies.
* An enthusiastic **team player** and deep **creative thinker** with thorough understanding of all aspects of the **SDLC** from understanding client requirements through direct client interaction, translating them into technical specification and driving their execution.
* Expertise in developing Web Applications, Microservices and RESTful API’s using **C#, .NET 6, .NET Core 3.1/5, .NET Framework 4.5/4.8, ASP.NET Core 3.1/5/6, ASP.NET MVC 4/5, WEB API 2, Vue.js 2.x, Angular 2/5, Angular JS 1.x, Razor View Engine, Node.js, AWS, Amazon DynamoDB (NoSQL), Entity Framework 6, SQL Server 2012/2014, LINQ, JavaScript, jQuery, AJAX, JSON, XML.**
* Extensive working experience in developing Single Page Applications (SPA) using **Vue.js 2.x**, **Angular 2/5, Angular JS 1.x, JavaScript and Typescript.**
* Built scalable serverless applications using **AWS** stack and services such as **AWS Fargate, AWS** **Lambda, Amazon DynamoDB (NoSQL), AWS API Gateway, AWS S3, AWS CloudWatch, AWS CloudFormation and AWS X-Ray.**
* Experience in creating Lambda functions using **Node.js**.
* Strong understanding of **Object Oriented Programming** (OOP) and methodologies and **SOLID** design principles.
* Implemented **Dependency Injection**, **Service** **Locator** pattern, **Inversion of control** and **SoC** to create loosely coupled modules.
* Good working experience in creating interactive and responsive UI web applications using **Vue.js**, **Angular**, **HTML 5**, **CSS 3**, **Bootstrap** and **jQuery**.
* Experience in implementing ASP.NET Security features such as **authentication** and **authorization** using middlewares and filters.
* Extensive experience in developing websites and web applications using Vue, Vuex, and Vue Router.
* Developed Bootstrap responsive web application pages using **Angular 2/5** services, modules, components, routing and directives.
* Good experience in **Database** such as Writing Stored Procedures, Functions, Triggers and Views using **SQL Server** 2012 as well as 2014.
* Proficiency in **Entity Framework** using **LINQ** for data retrieval, CRUD operation, data filtering, sorting.
* Good Experience in **Unit Testing** using frameworks like **NUnit, XUnit, Moq, Jest, Jasmine and** **Karma** to test and detect possible problems for related application, and used **Postman**, **Swagger** and **Fiddler**, for debugging Web API’s.
* Involved in **Performance testing** to handle high user traffic and improve application performance.
* Good Experience in using **Splunk**, **AWS CloudWatch**, **AWS X-Ray** and **Kibana** for debugging application and monitoring their performance.
* Experience with **Docker** for containerization and deploying Docker containers on ECS Fargate.
* Strong Experience in designing and implementing **A/B tests** using **Optimizely**. Gathered metrics and configured audience and traffic allocation.
* Proficient in using **Google Tag Manager** and **Google Analytics** to track customer behavior.
* Experience with DevOps practices and created build and release definitions for continuous integration and continuous deployment (**CI/CD**) using **Azure DevOps**.
* Experience in version control tools like **Git and TFS**.
* Worked in a **Scrum/Agile** environment to plan and estimate work at different levels (story, sprint, release) and participated in Scrum activities like Daily Scrum, Sprint Planning, Sprint Review and Retrospective.
* Functional domain experiences involve **Finance**, **E-commerce, Supply Chain Management** and **Oil & Gas**.

# TECHNICAL SKILLS

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| **Programming Languages** | C#, JavaScript, TypeScript, SQL, LINQ |
| **Web Technologies** | .NET 6, .NET Core 3.1/5, ASP.NET Core 3.1/5/6, .Net Framework 4.5/4.8, ASP.NET MVC 4/5, ASP.NET WEB API 2, Razor View Engine, Node.js, Docker,Entity Framework, IIS |
| **Client Side Technologies** | Vue JS 2.x**,** Angular 2/5, Angular JS 1.x, jQuery, HTML, CSS, Bootstrap |
| **Cloud Platforms** | AWS, Azure |
| **Database** | SQL Server 2012/2014, Amazon DynamoDB (NoSQL) |
| **Unit Testing** | NUnit, XUnit, Moq, Jest, Jasmine, Karma, Swagger, Fiddler, Postman |
| **Development Tools** | Visual Studio 17/19/22, Visual Studio Code, SQL Server Management Studio 12/14 |
| **Data Analytics Tools** | Splunk, Power BI, Kibana |
| **Other Tools** | Optimizely, Google Tag Manager, Authorize.NET, SendGrid |
| **Project Tracking/Bug Tracking** | Azure DevOps, Visual Studio Team Services (VSTS), JIRA, Bugzilla |
| **Modelling Methodology** | Agile (Scrum) |
| **Version Control** | Git - Git Bash, Git GUI, TFS |
| **Source Code Repository** | Azure DevOps, Visual Studio Team Services, Bit Bucket |

# PROFESSIONAL EXPERIENCE

**TaxAct** **Irving, TX Feb 2019 – Till Date**

**Full Stack .NET Developer**

**Project Name:** Early Experience Refactor

**Environment and Technologies used**

C#, .NET 6, .NET Core 3.1/5, ASP.NET Core 3.1/5/6, ASP.NET Web API, Vue.js 2.x, Node.js, Typescript, JavaScript, AWS Fargate, Amazon DynamoDB, AWS CloudFormation, AWS CloudWatch, AWS S3, AWS X-Ray, Docker, Terraform, Splunk, NLog, NUnit, Moq, Jest, Swagger, Postman, EggPlant, Optimizely, Google Analytics, GIT, Azure DevOps, Visual Studio 2022, VS Code.

**Project Description**

TaxAct is a leading provider of online tax preparation solutions for individuals, business owners and tax professionals. The Refactor Initiative involves redesigning and refactoring of TaxAct’s legacy application using cutting edge technologies to enable scalability, performance, cost efficiency and conversion to a cloud-based software to provide customers fast, simplified and delightful experience for filing their taxes online. This project also includes improving and maintaining the early experience part of the TaxAct website with a goal to increase customer complete rate. This work is eventually expected to help TaxAct gain market share and compete with its rival TurboTax in the online tax preparation business.

**Roles and Responsibilities**

* Designed and developed a highly scalable and cost-efficient application using C#, .Net 6, ASP.NET Core 6, ASP.NET Web API with AWS Fargate to manage servers on the fly and leveraged the Serverless framework to manage infrastructure resources.
* Redesigned and refactored TaxAct’s monolithic legacy application written in C++ and converted it into a microservices-based application using C#, .NET 6 and RESTful APIs.
* Refactored the legacy UI based on ASP and jQuery and converted it into rich and interactive UI using Vue.js 2.x, Typescript and JavaScript.
* Developed a fast and efficient Single Page Application using Vue.js, Vuex and Vue Router.
* Used Vue.js extensively for event handling, data binding and validations
* Leveraged Amazon Fargate, Amazon DynamoDB to achieve high performance, high availability, scalability and cost efficiency.
* Involved in Performance testing and improved the application to handle 150k concurrent users with P95 response time of < 1s.
* Developed custom middleware for Authorization and Exception handling and Logging.
* Utilized Reflection to map dynamic input fields from the frontend UI to the TaxReturn object in the backend API.
* Created a Feedback collection feature using Angular 12, AWS Gateway, AWS Kinesis, AWS S3 and Snowflake.
* Developed a dynamic server-side validation framework leveraging Fluent Validation that would validate any field at runtime.
* Helped in improving the customer retention rate by 20% and the customer complete rate by 12%.
* Migrated code from .NET core 2.1 to .Net core 3.1, .Net core 5 until .Net 6.
* Extensively used Postman and Swagger to test Web API endpoints with JSON payloads.
* Achieved 75% code coverage using NUnit and Moq for the backend services and used Jest for the frontend application.
* Debugged, monitored the application and created dashboards using Splunk, AWS CloudWatch and AWS X-Ray.
* Created Docker images and deployed containers on ECS Fargate.
* Managed AWS infrastructure as code using Terraform.
* Created build and release definitions for continuous integration and continuous deployment (CI/CD) using Azure DevOps.
* Designed and successfully executed A/B Tests using Optimizely, gathered metrics and configured audience and traffic allocation.
* Released every new feature via an Optimizely A/B test and enabled features based on customer data analysis.
* Worked in pure agile fashion using Azure DevOps with highly skilled product owners, scrum masters and business analysts to understand the requirements and created backlog items for the deliverables.
* Involved in peer-to-peer code reviews of all the developer user stories.
* Used Google Tag Manager to track events and user behaviour in Google Analytics.

**TaxAct** **Irving, TX Sep 2018 – Jan 2019**

**Full Stack .NET Developer**

**Project Name:** Retail Distribution

**Environment and Technologies used**

C#, .NET Core 2.1, ASP.NET Core 2.1, ASP.NET MVC 5, Angular 5, Razor, AWS Lambda, AWS API Gateway, Amazon DynamoDB, AWS CloudWatch, Elastic Search, Kibana, AutoMapper, Serilog, XUnit, Moq, Swagger, Postman, GIT, TFS, Visual Studio 2017.

**Project Description**

The Retail Distribution Initiative extends TaxAct’s online presence to top retailers such as Walmart and HSN. The project handles everything related to the retail end of TaxAct like partner management, voucher management and integration with Customer Support.

**Roles and Responsibilities**

* Designed and developed web application using C#, ASP.NET Core 2.1, ASP.NET MVC 5, AWS Lambda (Serverless) and leveraged Amazon DynamoDB (NoSQL) in the environment using Visual Studio and AWS Console.
* Designed entire framework to support Test Driven Development (TDD) by making use of Dependency Injection and Repository Pattern.
* Single-handedly implemented Restful services using ASP.NET Core 2.1 for performing backend database operations and serve data to the front-end applications in JSON format.
* Consumed the APIs in a front-end MVC application and designed interactive views using Angular 5, HTML, CSS, Bootstrap and AJAX to provide excellent user experience.
* Developed Bootstrap responsive web application pages using Angular services, modules, components, routing and directives.
* Developed web applications using ASP.NET under MVC architecture with RAZOR view engine.
* Created UI pages with Razor and Partial views.
* Developed middleware for Authorization, Exception handling and Logging.
* Developed a complex algorithm to generate vouchers for retailers such as Walmart and HSN.
* Worked extensively on Amazon DynamoDB using AWS SDK for performance tuning in data access operations.
* Exposed AWS Lambda function as Rest API using AWS API Gateway.
* Created test cases and wrote unit tests using XUnit and Moq.
* Extensively used Postman and Swagger to test Web API endpoints with JSON payloads.
* Created build and release definitions for continuous integration and continuous deployment (CI/CD) using TFS.
* Conducted automated tests on API by using Postman and configured it in CI/CD pipeline.
* Created a comprehensive logging mechanism using Serilog and wrote multiple enrichers which logged critical additional data to AWS CloudWatch and Elastic Search.
* Created dashboards in Kibana for monitoring the application leveraging the ELK stack.

**Ignition Drawing** **Tacoma, WA**/**Cedar Rapids, IA Jan 2018 – Aug 2018**

**Full Stack .NET Developer**

**Project Name:** Ignition Drawing

**Environment and Technologies used**

C#, .NET Framework 4.5, ASP.NET MVC 5, Web API 2, Angular 2/5, Entity Framework 6, T-SQL, SQL Server 2014, jQuery, Underscore JS, AJAX, JSON, NUNIT, Moq, Jasmine, Karma, HTML 5, CSS 3, Bootstrap, Authorize.NET, GIT, Visual Studio 2015.

**Project Description**

Ignition Drawing is based on supply chain management domain. It is the world’s fastest and the most consistent supplier of vector art and digitizing services. Customers use ignition drawing website to upload images with specifications for redrawing and Ignition drawing

converts it into any number of vector art and digitizing file formats. These files can used for printing, sandblasting, engraving, etc. This application takes care of order placement, processing, order management and delivery.

**Roles and Responsibilities**

* Developed and enhanced the web application using C#, ASP.NET MVC, Web API, SQL Server with Angular 2/5 and Entity framework in the environment by using Visual Studio.
* Used Repository Pattern and Factory pattern for reusability of Data Access Logic for all modules.
* Designed interactive ASP.NET MVC views using jQuery, HTML, CSS, Angular 2, Bootstrap and AJAX to provide excellent user experience.
* Developed the middle layer using C#, ASP.NET MVC, Web API and Entity Framework.
* Implemented RESTful web services using ASP .NET Web API to serve data to the front-end application in JSON format.
* Angular 2 setup for the client side development, validations and data binding.
* Used Angular 2 to connect the web application to back-end APIs and wrote custom directives for a responsive user interface.
* Updated the application with new features of Angular 5.
* Used Entity Framework 6.x with Database First Approach to create database model.
* Wrote Stored Procedures, Views, Triggers, Functions and Indexes to improve the throughput of application using optimized queries in SQL server.
* Conducted tests on the Web API by using Fiddler.
* Created test cases and wrote unit tests using NUnit.
* Worked with Jasmine and Karma unit test frameworks to write unit tests for client side code.

**Infinite Computing Systems Mumbai, India/Cedar Rapids, IA May 2015 – Dec 2017**

**Full Stack .NET Developer**

**Project Name:** My Web Ready

**Environment and Technologies used**

C#, .NET Framework 4.5, ASP.NET MVC 5, Web API 2, Angular JS 1.6, Entity Framework 6, LINQ, SQL Server 2014, Autofac, AutoMapper, jQuery, Underscore JS, Moment JS, AJAX, JSON, NUNIT, Moq, Jasmine, Karma, Fiddler, Razor, HTML 5, CSS 3, Bootstrap, Semantic UI, Send Grid, Authorize.NET, GIT, Visual Studio 2013, Power BI.

**Project Description**

My Web Ready is an ecommerce application where customers can order websites for their business. Customers can handpick a theme, features, plan and hosting as per their requirement and bundle it together to create a website. They can also subscribe to services such as SEO, Analytics and Payments, etc. Once the order is placed, it is further processed in Order Management System. My Web Ready was inspired by Wix.com.

**Roles and Responsibilities**

* Developed a web application using C#, ASP.NET MVC, Web API, and SQL Server with AngularJS and leveraged Entity framework in the environment by using Visual Studio.
* Designed entire framework to support Test Driven Development (TDD) by making use of Dependency Injection (Autofac Container), Repository and MVC Pattern.
* Implemented Restful services using ASP.NET Web API for performing backend database operations.
* Angular JS setup for the client side development, validations and data binding.
* Utilized AngularJS Factory and Dependency Injection techniques to ensure an Inversion of Control (IOC) by focusing on minimizing the number of watchers to increase the performance.
* Implemented Token Based Authentication (OAuth) in Web API and Forms Authentication in MVC.
* Created custom CMS in Angular JS leveraging local storage and session storage.
* Created custom image cropper and custom directives using Angular JS, jQuery and Semantic UI.
* Developed reusable components using C#, ASP.NET MVC Filters for Authorization, Exception handling and Logging.
* Utilized Entity Framework technology extensively for data retrieving, querying, storage and manipulation using LINQ.
* Worked on creating Azure Blob for storing unstructured data in the cloud as blobs.
* Created and embedded reports using Power BI to visualize and track orders, leads, etc.
* Conducted tests on the Web API by using Fiddler web debugging proxy.
* Created test cases and wrote unit tests using NUnit, Moq, Jasmine, and Karma and wrote Test cases.

**Chevron Mumbai, India Jun 2014 – Apr 2015**

**Full Stack .Net Developer**

**Project Name:** Material Balance Application **(**MBA)

**Environment and Technologies used**

C#, .NET Framework 4.0, ASP.NET MVC 4, Angular JS 1.4, Web API, ADO.NET, SQL Server 2012, Razor, JavaScript, jQuery, AJAX, Bootstrap, HTML, CSS, GIT, IIS, JIRA, Windows Scheduler, Visual Studio 2012, Bit Bucket.

**Project Description**

Material Balance Application (MBA) is an application used by Chevron Thailand to manage materials to drill wells. It is designed to optimize the ordering of drilling material to meet customer needs. The application will help to automate the process for material

planning, ordering and tracking. It will be source of truth for drilling material visibility. Provides the linkage to the various systems like JDE and other drilling planning systems.

**Roles and Responsibilities**

* Successfully developed web application using C#, ASP.NET MVC, Web API and ADO.NET, Angular JS, jQuery, and SQL Server.
* Designed the application by making use of Service Locator and Repository Pattern.
* Converted legacy application written in VB.NET, Web Forms, jQuery to new technologies such as C#, ASP.NET MVC and Angular JS.
* Developed web applications using ASP.NET under MVC architecture with RAZOR view engine.
* Angular JS setup for the Client side development, Validations and Data Binding.
* Designed interactive and responsive UI using Angular JS, jQuery, Bootstrap, HTML 5 and CSS 3.
* Used Action Filters in MVC for implementing User Authentication, Authorization and Role based security.
* Developed RESTful web services using C# and Web API.
* Utilized .Net 4.0, C#, Web API, ADO.NET and TSQL for backend and middle-tier development.
* Used ADO.NET objects such as Data Reader, Dataset and Data Adapter for consistent access to SQL data sources.
* Implemented Windows Scheduler for creating daily reports.
* Used Stored Procedures, Views, Triggers and User Defined Functions in SQL Server for data access and manipulation.
* Table design, creation and optimization with MSSQL 2012. Experience in adding indexes to tables that need it to boost search operations for data.

# EDUCATION

* Bachelor of Engineering (Computer Science), University of Pune, India.