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SUMMARY

- Over **7+** years of IT expertise, with involvement in all parts of the **Software Development Life Cycle (SDLC)**, including **planning, analysis, design, implementation, testing, and maintenance** of cross-platform applications.
- Technical expertise in Microsoft Technologies, such as **.NET Framework, ASP.NET Web Forms, ASP.NET MVC, C#, VB.NET, Web Services, RESTful Services, Web API, WCF, WPF, Entity Framework, LINQ, IIS, SOAP, XML, DOM, HTML 5, Java Script, jQuery, AngularJS, Angular, ReactJS, Nodejs, CSS3, HTML5, VBScript, VisualStudio.NET, AJAX, ADO.NET, XML**.
- Developed and implemented **microservices** architecture to improve scalability and maintainability.
- Implemented **ASP.NET Core Web API** and **C#** to build strong backend logic and **RESTful APIs**.
- Experienced in **SQL, Oracle, Cosmos DB, and PostgreSQL**, optimizing database schemas, writing complex SQL queries, and implementing database-related functionalities.
- Utilized **Microsoft Azure** and **AWS** cloud services to deploy, administer, and optimize applications, providing high availability and security.
- Utilized **OAuth2** and **JSON Web Tokens (JWT)** authentication for secure connections, strengthened security with **Azure Security Centre**, and maintained data integrity with **JSON**.
- Experienced with **Git, GitHub, GitLab, Team Foundation Server (TFS), Visual source safe** for version control and collaboration with development teams.
- Used **CI/CD** pipelines to automate builds and deploys, resulting in fast and reliable software delivery.
- Developed user-friendly frontend interfaces using **HTML5, CSS3, jQuery, AngularJS, and JavaScript** frameworks such as **Angular** to improve user experiences.
- Skilled in leveraging libraries (**Bootstrap, d3, UI Kit**) for enhanced **UI** and data visualization.
- Used **Postman** to create thorough **API documentation**, facilitating testing and integration.
- Used **Docker** and **Kubernetes** to optimize application deployment through **containerization** and **orchestration**.
- Experienced with **JIRA, Trello, and Azure DevOps** for project tracking, issue management, and collaboration.
- Implemented **Kafka** and **RabbitMQ** for efficient and fault-tolerant message processing, improving overall system responsiveness.
- Implemented dependency injection patterns (**ASP.NET Core DI**) to improve modularity and testing.
- Developed **web forms, user controls, AJAX web forms, and HTML** pages for dynamic web applications.
- Proficient in connecting third-party services, **RESTful APIs**, and **SOAP** services for efficient data interchange and system integration.
- Used **ORM** technologies like **ADO.NET** for efficient and reliable database interactions.
- Experienced in utilizing **Internet Information Services (IIS), Heroku, and Azure App Service**.
- Implemented thorough unit and integration testing methodologies to improve software reliability and quality.

EDUCATION

Master's degree in applied computer science.

TECHNICAL SKILLS:

Programming Languages	C# .NET (4.5/4.0/3.5/3.0), VB.NET (10.0/9.0/8.0), HTML5
Web Technologies	ASP.NET 4.5/4.0/3.5/3.0/2.0, ASP.NET MVC 5.0/4.0/3.0, Silverlight 4.0/3.0, Ajax, Entity Framework, Bootstrap, LINQ, Webservices, Webmail, jQuery, HTML5, CSS3, VB Script, ReactJS, Node.js, JavaScript, TypeScript, XAML
UI Technologies	Win forms, WCF
Web Service & Data Modelling	AJAX, REST, SOAP, XML, JSON
IDE Tools	Visual Studio 2019/2016/2012/2010/2008/2005, SQL Server Management Studio, VS Code
.Net Frameworks	Net Framework 4.6/4.5/4.0/3.5/3.0/2.0
Databases	MS SQL SERVER 2019/2016/2012/2008/2005/2000, MS Access 2010/2007/2003, Oracle

	11g/10g/9i
Reporting Tools	SQL Server Reporting Services (SSRS 2008/2005), Crystal Reports (2010/9/8.5/8).
Modeling Tools	UML, MS Visio 2010/2007
Middleware	WCF, ADO.NET Entity Framework 5.0/4.1, NHibernate, LINQ, LINQ to XML, LINQ
Servers	Windows Server 2009/2008/2003/NT, Microsoft IIS (7.0/6.0/5.0/4.0), Heroku

EXPERIENCE

Aug 2023 – Till date

Software Developer • NCB Bank

CRM System was developed to streamline and enhance customer interactions, improve service efficiency, and provide a unified platform for managing customer data. The system integrates various functionalities such as customer data management, service request tracking, marketing campaign management. The goal was to provide a 360-degree view of customer interactions, improve service efficiency.

- Proficient in applying **OOP** and **OOD** principles to design and develop robust software solutions.
- Client-Side Validations were handled using **JavaScript** and **ASP.NET** Controls.
- Designed reusable methods, Classes using Object Oriented Programming in **C#, Visual Studio**.
- Involved in the creation of stored procedures in **MS SQL Server 2016**.
- Configured and managed cloud resources using **AWS SDK** for **.NET**, automating deployment and scaling of applications written in **C#**.
- Implemented design patterns such as **Singleton**, **Factory**, **Repository**, and **Dependency Injection** in **C#** to promote code reusability and maintainability.
- Conducted unit testing using **MSTest** and **NUnit** frameworks, writing comprehensive test cases in **C#** to ensure code quality and reliability.
- Performed validations on **Web Forms** using **.NET** Validation Controls and Client-Side Validation using **Angular4**.
- Using **Node.js**, created **micro services** to transfer data. Performing **API** calls and using **Postman** to verify data on the back end for various online services.
- Used entity framework for **Data access** by creating **POCO** classes and using separate database solution.
- Designed and implemented secure and scalable network architectures using **AWS VPC**, **subnets**, and **security groups**, adhering to industry best practices and compliance standards.
- Configured and optimized **content delivery networks (CDNs)** with **AWS CloudFront**, leveraging caching and distribution strategies for low-latency content delivery globally.
- Skilled in implementing **RESTful APIs** to facilitate communication between frontend and backend systems, ensuring seamless data flow and interaction.
- Implemented **authentication** and **authorization** mechanisms using **AWS Cognito** and **IAM**, ensuring secure access control to application resources.
- incorporated **Kafka** into .NET applications provided with a more robust and responsive financial infrastructure.
- Proficient in deploying serverless applications on **AWS** cloud infrastructure, utilizing services like **AWS Lambda**, **API Gateway**, and **DynamoDB**.
- Experienced in configuring and managing cloud resources using **AWS CLI** and **AWS Management Console** for efficient application deployment and scalability.
- Implemented automation and monitoring solutions with **AWS CLI**, **SDKs**, and **CloudWatch**, ensuring efficient resource management and visibility.
- Designed and optimized network architectures using **AWS App Mesh**, **CloudFront**, and **Route 53** for secure, scalable, and low-latency communication.
- Documented **REST APIs** using **Swagger**, enabling clear and comprehensive documentation for developers and stakeholders, facilitating easier adoption and integration.

- Managed source code efficiently using **Git** and **GitHub** Enterprise, ensuring version control and collaborative development among team members.

Feb 2022 - Jan 2023

Sr. Software Developer • Shell Inc - Wipro Ltd

This is a pos system that is used in Shell gas stations across the United States. This has all the items that we sell in the store. This is a legacy application which we migrated to Angular and modern frameworks. This tool allows the consumers and provider to track volumes that are assigned for their respective locations. They can also track their payments and do backtracking for their lost volume analysis, status of their application and operations related to their respective location. The provider can feed the system with appropriate information and can remotely track what is the reality that is happening on the ground.

- Ensure seamless integration of the **POS** system with existing infrastructure and third-party services.
- Developed sophisticated prototypes and applications by utilizing a comprehensive skill set, including **HTML, CSS, JavaScript, jQuery, Ajax, JSON, Angular, React** and **Bootstrap**.
- Ensured compatibility of **.NET applications** with **Unix/Linux**-based microservices and other system components.
- Experience in integrating distributed storage solutions into existing infrastructure, ensuring high availability and performance.
- Implementing data migration strategies to move data from legacy systems to distributed databases such as **MongoDB** and **Cassandra**.
- Utilizing **distributed storage systems** for **large-scale data processing** and **analytics**.
- Optimizing database performance and ensuring data integrity across multiple storage systems.
- Improving the **authentication** and **authorization** process by implementing **OAuth** integration with **OKTA**.
- Integrated **Swagger UI** to provide an interactive and user-friendly interface for exploring and testing **API endpoints**.
- Applied **JUnit** for effective **unit testing**, ensuring comprehensive code coverage and error-free software development in the project.
- Enhancing legacy technologies to modern frameworks and languages within an **Agile software development life cycle (SDLC)** with **SCRUM** methodology.
- Used **Jira** for agile project management and bug tracking and Used **Confluence** as a repository for the entire project related documentation.
- Utilized **AngularJS** Route for creating **Single Page Application (SPA)**.
- Incorporate **Model-View-Whatever (MV*)** development pattern allowing efficient **unit testing**, and appropriately utilizing **Controllers, Services, and Factories with dependency injection**.
- Implemented **ng-repeat** to display tabular data and utilized features such as **sorting, filtering, paging, and data manipulation** to perform **CRUD** operations by using **AngularJS**.
- Developed **Angular filters, pipes, shared modules, route management**, and two-way **data binding** for property and **event binding**, which aids in creating a user interface that is responsive.
- Automated the generation of weekly, monthly, and quarterly sales analysis reports for each **point of sale (POS)**.
- Utilized **batch scripting** to streamline report creation and ensure timely delivery of critical sales data.
- Implemented **Docker containers** to streamline the deployment process and ensure portability of applications.
- Deployed web application to the Production server using **Azure App Service**.
- Integrated **Azure Service Bus** with Azure Functions to build serverless event-driven architectures, processing incoming messages and triggering functions for further processing.

- Implementing **Azure Logic Apps, Azure Functions, Azure Storage, and Service Bus Queues** for large enterprise-level **ERP Integration systems**.
- Utilized **Docker** to containerize **.NET applications**, ensuring consistent environments and easy deployment on **Unix/Linux** systems.
- Documented **REST APIs** using **Swagger**, enabling clear and comprehensive documentation for developers and stakeholders, facilitating easier adoption and integration.
- Proficient in utilizing various **PaaS** solutions, such as, Microsoft Azure App Service.
- Used PowerShell to interact with **REST APIs**, automate **Azure resource management**, and perform **system administration** tasks.
- Utilize **Azure DevOps** for project planning, task tracking, and collaboration among development teams involved in building and maintaining.
- Converted **.Net application** to **Microsoft Azure Cloud Service** Project as part of cloud deployment.
- Created **logic** to identify high-performing POS locations based on the generated **reports**.

Jan 2021 - Dec 2021

Sr. Software Developer • Premera-Okta - Cyient Ltd

This is a migration project for Premera Blue Cross websites and mobile versions into OKTA. Migrating the whole system to accept OKTA as a security provider, changing all the essential backend services and frontend code changes. Removing old AUTH based services and bringing the OKTA. Front end design changes and testing using tools like swagger.

- Developed custom user controls and components in **C#**, enhancing the UI and UX of web applications.
- Developed sophisticated prototypes and applications by utilizing a comprehensive skill set, including **HTML, CSS, JavaScript, jQuery, Ajax, JSON, Angular, React and Bootstrap**.
- Replace existing authentication services with **OKTA**, ensuring seamless integration with backend services and frontend applications.
- Implement front-end design changes to enhance user experience and meet project requirements.
- Used **ASP.NET MVC** Data annotations and **jQuery** to do validations on the Model Data.
- Worked with **LINQ** to **Datasets**, which uses **ADO.Net** to handle the communication with the database.
- Migration of classis **ASP** applications to **ASP.Net** and **C#**, **MS Access** to **SQL Server**.
- Improving the **authentication** and **authorization** process by implementing **OAuth** integration with **OKTA**.
- Developed **Angular filters, pipes, route management**, shared modules and handling two-way data binding for both property and event binding that helps in developing responsive **User Interface**.
- Implemented **NgRx** framework for building reactive web interfaces and maintaining state and store management.
- Implemented Debugging and Error Tracking.
- Utilized **asynchronous** programming in **C#** using **async** and **await** to improve application performance and responsiveness.
- Employed **C#** attributes to add metadata to classes, methods, and properties, facilitating custom behavior and improving code maintainability.
- Implemented **custom exception handling** in **C#** to improve error reporting and application stability.
- Utilized **C#** generics to create reusable and type-safe data structures and algorithms.
- Extensively use various data rendering directives such as **ng-repeat, ng-if, ng-show, ng-hide** as well as routing directives.
- Integrated **Swagger UI** to provide an interactive and user-friendly interface for exploring and testing **API endpoints**.
- Applied **JUnit** for effective **unit testing**, ensuring comprehensive code coverage and error-free software

development in the project.

- Implemented real-time features in applications using **RabbitMQ** for chat and live notifications.
- Enhancing legacy technologies to modern frameworks and languages within an **Agile software development life cycle (SDLC)** with **SCRUM** methodology.
- Implemented Debugging and Error Tracking.

Mar 2019 - Dec 2020

Sr. Software Developer • Government of India - Cyient Ltd

This is a Web Based Application which is used by the people of Varanasi City for paying their property tax, water tax, raise objections on properties. It consists of two modules. One User Module, where users can view, attach, report on properties, pay taxes. Second is the Admin Module, which consists of admin, Tax Inspectors, Tax Supervisors, Zonal Managers and Commissioners, who perform daily operations on user objections and requests. This web application will be the key in the property and water tax management system of Varanasi City.

- Designed and developed the complete front-end application using **ASP.NET Core Web API** with **C#** as code behind for the internal processing.
- Created and deployed the **Windows Service** for **Emails**.
- Experienced with Service Oriented Architecture (SOA) using **BizTalk Server**, **SOAP**, and **WSDL**.
- Implemented Reactive Forms within **Angular** to streamline and validate user input, optimizing data handling and improving form-based interactions.
- Developed efficient updates of **HTML** documents in **React** and used **Redux** for state management of the Application.
- Created several User controls, Custom controls with code behind in **C#** to make reusable and generic.
- Involved in writing business logic using **C#.NET** in 3-Tier Architecture for code security and performance.
- Developed **ASP.NET** web pages using Third Party (**Kendo UI**) user controls for creating front end.
- Coding the Data Access Layer, and Business Logic Layer using **C#.NET**.
- Implemented **security** measures, **routing**, **bundle** configuration, **action selectors**, **action filters**, and **caching** within **MVC** controllers to enhance application development.
- Utilized various **Bootstrap** components such as **accordions**, **date pickers**, **time pickers**, **alerts**, and **buttons**, as well as **React-Bootstrap** components.
- Responsible for implementation and hosting **web services** in **IIS**.
- Responsible for using **XML** for outbound communication with the third-party registers like **Authorize.net** for **card** payments.
- Created and utilized **SQL Server** and **stored procedures** to optimize database queries, improving overall system performance and response times.
- Created **User Controls** and **Custom Controls** for common purposes in the whole application.
- Responsible for implementing and deployment of **WCF Services**.
- Developed the **microservices**, by implementing the **Model-View-Controller (MVC)** pattern and built the web apps.
- Integrated **ASP.NET** with **Entity Framework** for data access and manipulation, including working with models, database context, and performing **CRUD** operations.
- Migrated the application from on-prem to **Azure Cloud** by using **Azure DevOps**.
- As part of cloud deployment, Modified .Net application to **Microsoft Azure Cloud Service Project**.
- Effectively used **Microsoft Azure Services** like **IaaS** and **PaaS**.
- Utilized Azure services like **Azure App Service**, **Azure BLOB**, **Azure Virtual Machines**, **Azure SQL Database**, and **Azure Storage**.
- Hosted the Application on **Azure app service** and setup **CI/CD** pipelines using **Azure DevOps** to automate the build, test, and deployment of **microservices** into the **Azure cloud**.
- Utilized **Azure BUS** for communication of **microservices** with each other.

- Experience in using Source Code Control Systems like **TFS (Team Foundation Server)** and **GIT**.
- Restricting the user from logging in based on his user's permissions.

Sep 2017 - Mar 2019

Mobile Application Engineer • Cyient Ltd

Developed internally as a Cyient product. This android application is used by the new employee or client who visits the Campus/Company solution. The user can select the source and destination of the office premise and see a virtual route appear on the screen Used Bluetooth Beacons as source for indoor navigation.

- Develop Master Pages and Themes using **C#.NET** to create a consistent layout for the pages.
- Created Restful services using **.Net Core Web API** for exposing these to mobile device applications and allow new web/client projects to leverage reusable data.
- Worked with **ASP.NET Web Forms, State Management, caching features**, for optimization and configuration of the web application using **C#.NET**.
- Programmed **ADO.Net** for communication between application and database, used extensively **Data Grid, Data Set, Data Table** and **Data Readers** to render reports.
- Hands on experience in **WCF** Services rest using the protocols **http** and **https**.
- Developed several web pages using **asp.net** and **Angular 4, HTML5, jQuery, JavaScript**.
- Involved in designing the **user interfaces** and **coding**.
- Client-side validation using **JavaScript** and **jQuery**.
- Designed **WPF forms, custom controls**, and **user controls** using **XAML** for an interactive user interface.
- Used **Ajax, jQuery, JavaScript, CSS**, and various web controls to present data to users in a much comfortable environment.
- Hands-on experience with **IIS web server** for project development.
- Involved in Developing **WCF** services to enable effective communication.
- Implemented **.Net** Security features of **Authentication** and **Authorization**.
- Involved in **Coding** and **Debugging**.
- Documented **Algorithms** and **Workflows**.

Jul 2016 - Sep 2017

Jr. Software Engineer • Innominds Software

Road Health Analytics is an Android application that tracks health of road by using sensor data that we acquire during the travel. We capture data with an app that can run in any Android mobile with minimum requirements of Gyroscope, Accelerometer, GPS, and Active Internet Connection. We can capture images and video of the journey so that we can verify the sensor data to actual data. To prevent the data loss, we have given a 10-minute time interval to upload the collected data to the server. If data is stored locally due to internet loss, then we can upload it manually. Later we perform some algorithms on the server side and present the data on dashboard.

- Implemented new features and functionality for **Android** applications using **Java** and **Kotlin** languages.
 - Integrated **RESTful APIs** and **third-party libraries** to enhance application functionality.
 - Integrated **Google Maps API** and **Firebase** cloud messaging to enhance application functionality.
 - User based **authentication** and **authorization** using **OAuth**.
 - Used **C#** in **Xamarin** to create native mobile applications.
 - Created **Stored Procedures, Views, Triggers** and **Complex SQL** queries in **SQL Server**.
 - Responsible for Database maintenance in **SQL Server 2008R2**.
 - Visualizes the **dashboards** using **D3&UIKit** according to the data received from app.
-