Tarek Ahmed



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# SUMMARY

I'm a full stack developer with over 20 years’ experience. I architect and develop software using SOLID principles, TDD, and design patterns.I have been involved in every aspect of an application’s life cycle, from infrastructure set up to delivery of key functionality to an application. I take pride in what my team produces. When designing systems another key aspect that I focus on is how to develop software that supports internal processes and assists in the business becoming more efficient.

# EXPERIENCE

## VertexOne: 2019 - Current

### Role: Architect/Senior Developer - Full Stack

Technologies: Angular, C#, .Net Core, Asp.net, Mvc, WebApi, VB.NET, WinForms, JQuery, SignalR, Sql Server, MassTransit, RabbitMQ, Elastic Search, Azure, Microservices architecture, NUnit, XML, PGP, Xamarin

Forms,MAUI, Git, Visual Studio, PostMan, EF Core, Entity Framework, Vanilla Js, Azure, CI/CD, AWS, Nuget

* Enhanced existing Customer Portal using Asp.Net MVC to support processing of auto payments. Built payment scheduler processing service to process payments automatically. Integrated with

Authorize.net.

* Developed Customer Portal Mobile App using Xamarin Forms targeting both iOS and Android. Integrated with restful api. Used SignalR to push client updates. Utilized push notifications to alert customers of pending payments. Deployed mobile app to google play and app store.
* Developed MAUI POC for data analytics usage data targeting iOS.
* Architected, developed and supported EDI file processing apis using NAESB/GISB standard including unit tests.
* Developed a custom dashboard for clients using Blazor and Web Api.
* Deployed in house Identity Server for single sign on support across internal applications..
* Invented, architected and developed a central web based dashboard to monitor all transaction lifecycle processing across the entire enterprise.
* Architected, developed and supported administrative web applications to allow configuring of setups for clients.
* Architected and developed a smart engine file distributing service. Smart engine allows files to be distributed based on file attributes(file name, directory location, file content) and distributed to a set of servers via a

load balancing algorithm.

* Invented, architected and developed file compare tool to automate testing of file conversion templates. This reduced QA file compare workload by 90%
* Architected and developed api models across all services, exposed them as nuget packages to the internal nuget server.
* Built build and release pipeline using azure devops. Trained staff on azure devops best practices.
* Architect and developed knowledge base for support staff to utilize.
* Architected and develop custom encryption library extended Bouncy Castle
* Invented, architected and developed automated load test, setup validation tool.
* Designed and developed worker service that integrated with Smart Meter Texas api.
* Created caching layers for apis which enhanced performance.
* Added asynchronous processing of files in legacy systems utilizing rabbitmq and masstransit.
* Implemented central logging framework across all applications binding logs by a correlation id.
* Developed a customer mobile application using Xamarin.
  + Developed data
  + Modified customer portal to support mobile web views.
  + Provided customer support for trading partners related to connectivity issues.

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## Jasmine Universe: 2016 - 2018

### Project: Jasmine Universe Mobile, Jasmine Universe Smart Hubb

**Role: Architect/Senior Developer**

Technologies: C#, Xamarin Forms, Asp.net WebApi, VB.NET, WinForms, JQuery, SignalR, SqlLiteDB, Sql Server,

* + - Developed mobile application using Xamarin Forms using MVVM pattern.
    - Developed users to control IOT devices through a smart console.
    - Users receive real time device updates via SignalR.
    - Integrated with Firebase for push notification delivery.
    - Delivered both Android and IOS applications.

### Client: American Museum of Natural History (AMNH), New York City Project: Ecommerce web, mobile and kiosks application. Role: Senior Developer

Technologies: C#, Asp.net, MVC,AngularJs, PHP, JQuery, EzPublish, Tessitura Server

* + - Developed custom ecommerce cart.
    - Designed a responsive single application that served 3 channels, mobile, web and kiosk.

## DOOR3: 2009-2016

### Client: AccentHealth.com, New York City Project: Android tablet application

**Role: Architect/Senior Developer**

Technologies: C#, Xamarin.Android, Umbraco CMS

* + - Developed content distribution network using Umbraco CMS and Xamarin.
    - Extended Umbraco CMS to serve targeted content to 30000 tablets distributed to medical practices across the United States.
    - Allowed practices to create custom content.
    - Android tablets work completely offline syncing on a nightly basis.

### Client: FreshDirect.com, New York City Project: iPad ecommerce application Role: Architect/Senior Developer

Technologies: C#, Xamarin.IOS, NewtonSoft, Entity Framework, SqlLiteDB

* + - Developed iPad targeted ecommerce application using Xamarin.IOS. ● The iPad application accessed an internally developed web service layer.
    - The app also included a recipe section which integrated with Foodily. ● Won a Webby for best ecommerce cart

### Client: BossRevolution, New Jersey Project: Digital Phone Card System Role: Senior Developer

Technologies: Asp.net MVC, Sql Server, Angular, JQuery

* + - Developed web POS for resellers of digital phone cards.
    - Integrated with Boss Revolution APIS.

### Client: WWE

**Project: Drupal Theme . Role: Senior Developer**

Technologies: PHP, JQuery, MySql, Drupal

* + - Install and implement i18n module.
    - Develop custom JQuery slideshow for videos
    - Replace drupal views with custom views for performance.

### Bunk1.com New York 2000-2005 Project: Camp CRM

**Role: Senior Developer**

Technologies: ASP.net, C#, ADO .NET, OOP, ASP, SQL, VB Script, JavaScript, MS SQL Server 2000, SoftArtisans FileUp and Excel Writer components

* + - Perform system analysis, data and process modeling.
    - Created stored procedures, views, triggers, functions, and optimized queries performance. (C#, OOP, ASP .NET, ADO.NET, MS SQL Server 2000, JavaScript, MS DataGrid and other Microsoft controls)
    - Participated in all stages of project development (designing of database structure and flexible user interface, developing and debugging, product support and etc.)
      * Designed, developed and maintained complete technological infrastructure. Utilizing Microsoft Technologies, and third party
    - Supported over 3000 simultaneous users, 500,000 total users and 1300 camps.
    - Configured, troubleshooted and monitored over 30 servers, 2 Load Balancer, 2 Firewalls

### eArtGroup.com New York, N.Y. 1999-2000

**Project: eArtGroup.com, Online Art Gallery. Role: Software Engineer**

Technologies: ADO, ASP, SQL, VB Script, JavaScript, MS SQL Server 2000

* + - Designed, developed and maintained eArtGroup.com’s Artist and Gallery Commerce Site using ASP, SQL SERVER, VB, SITE SERVER. ● Developed gallery admin that permitted galleries to maintain their content.
    - Help

### ICP Inc. Staten Island, N.Y. 1999-1999 Project: Board of Education Intranet. Role: Software Engineer

Technologies: ADO, ASP, SQL, VB Script, JavaScript, MS SQL Server 7

Designed, Developed and maintained Board of Education's Intranet using ASP, SQL SERVER, VB

### Dr Stan Klein, N.Y. 1995-1998 Project: Patient Database.

**Role: Part Time Software Engineer**

Technologies: Visual Basic 3.0, Microsoft Access 7.0, Lightwave 3D

Supported internal patient database and created 3D models for medical images.

# EDUCATION

## Long Island University

1993-1997

Computer Science

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# SKILLS

* + - Languages
* C#, VB.NET, Java, Swift, PHP, JavaScript, SQL.
  + - Frameworks
* .NET, ASP.NET, .NET MVC, .NET WebApi ,Symfony, jQuery, AngularJs, Xamarin, React, Ionic.