

# Carlos Ayala

## Software Engineer

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### EDUCATION

University of Houston – Downtown, Houston, TX

**Bachelor of Science in Computer Science**, May 2017

**Minor:** Mathematics

**Activities:** Association for Computing Machinery-UHD, Historian (Jan 2014 – Jan 2016)

Association for Computing Machinery-UHD, VP (Jan 2016 – May 2017)

### TECHNICAL SKILLS

#### **Cloud Computing**

Microsoft Azure - Cloud Services, App Services, Azure Key Vault, Storage, Web Apps, Active Directory, Application Insights, Azure Monitoring, Visual Studio Online (Azure DevOps), Azure Search, Service Bus, Cosmos DB, Azure Functions and SQL Azure

#### **Database Development**

Blob Storage, Cosmos DB, SQL, Server Management Studio (SSMS) 2018/2016, Import and Export Data

#### **Frameworks, Languages & Technologies**

.NET Framework 4.5/4.6.2/4.7, .NET Core 2.0, 3.0, 3.1, C#, Entity Framework, LINQ, ASP.NET, MVC, Web API, AngularJS, HTML5, CSS3, JavaScript, Bootstrap, JSON, XML, XAMARIN, WPF, WinForms

### WORK EXPERIENCE

Team Lead/

SR. .NET Software Developer

July 2019-Present

March 2019 - Present

*Cole-Parmer*

- Lead a Group of 5 engineers in the design and development of .Net/Angular based software solution
- Built database and table structures following n-tier architecture methodology for web applications
- Identified and suggested new technologies and tools for enhancing product value and increasing team productivity
- Leads an application development/engineering team with respect to the businesses assigned program/project with both local and remote resources
- Directly mentors staff working on the project and participate in code review and peer programming sessions
- Collaborate with production, product design, and quality assurance (QA) groups to ensure solutions are delivered effectively
- DevOps, Configuration management, Infrastructure automation, Continuous Integration and Delivery (CI/CD).
- Experience in Architecting and Implementing Azure Service Offering, such as Azure cloud services, Azure storage, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Azure, Blob Storage, Azure VMs, SQL Database, Azure Functions, and Azure Service Bus.
- Hands on experience on Backup and restore Azure services and in Design and configure Azure cloud services, Azure App Services, Blob storage, SQL Server, Azure Service Bus, Cosmos DB, Azure Functions
- Implemented a CI/CD pipeline using Azure DevOps (VSTS, TFS) in cloud with GIT, MS Build to deploy frontend, backend and serverless applications
- Experience in assigning the azure services on locations specific to integrate with web-apps and key-vaults

Cole-Parmer

*Software Developer*

January 2018- March 2019

- Use .NET and C# experience to aid in the further development of the backend API services to support TraceableLive, MasterFlexLive, CPLive, EnvironmentalLive and TraceableGo.
- Aid in the development of API service to migrate from using SQL database storage to NoSQL for performance improvements
- Support in-house customer service team issues brought from customers having issues with either of our current products; Which includes but not limited to debugging and refactoring API to provide solutions for persistent issues, handle updates to subscriptions of products if API fails, and provide updates to admin software
- Build and maintained an in house WPF admin application for TraceableLive Customer service following mvvm
- Maintain an implement new features for TraceableLive, MasterFlexLive, CPLive, and TraceableGo; Which are cross-platform mobile apps using native Xamarin framework that allow users to stay connected with their devices to monitor or control some of its built-in features.
- Designed and developed various abstract classes, interfaces, classes to construct the business logic using C#
- Improved Data Access Layer using Entity Framework and LINQ.
- Used Azure DevOps Server for the purpose of version Control and source code maintenance needs.
- Aided in efforts to re-architect IoT device cloud service and improve DevOps
- Efficiency gains removed the need for nearly 30 VMs, scaled down the SQL server size, and saved the company at least \$9000/month in hosting costs
- Migrate device data storage from SQL server to a cheaper and more robust Azure Blob Storage which will reduce storage cost by \$5000/month in server costs
- Strong hands-on experience in manual testing, unit testing and automation testing using NUnit and Selenium.
- Fixed misuse of Entity Framework in the codebase, speeding up multiple endpoints by a factor of 10
- Implemented features for the web API
- Hands-On experience in Azure environment using Azure Cloud Services Storage, Web Apps, Active Directory, Application Insights, Service Bus, Azure Monitoring, Visual Studio Online (DevOps) and SQL Azure.
- Experience in Software Development Life Cycle (like Analyzing Designing, coding, testing, bug fixing and customizing) and Implementation of Client/Server applications using C# and SQL Server 05/08
- Experience in SQL Database design, maintenance and performance tuning, developing SQL queries/scripts, stored procedures using SQL Server 2008.

CarlosRAyala.com

*Owner/Web Designer*

August 2017 – Present

- Resume website to keep up with new technologies and maintain knowledge of frontend languages
- Design and functionality of website made with JavaScript, HTML, and CSS with AngularJS Framework.