Carlos V. Chavez

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# Education

University of Texas at El Paso (UTEP)  
Master of Science – Software Engineering | Grad Date: May 2020 | GPA 3.9  
Bachelor of Arts – Political Science/International Relations minor: Psychology | December 2014 | GPA 3.21

***Technical Skills:***

**Languages:** Java, C#, TypeScript, Dart, JavaScript

**Web Tech:** Angular, .NET MVC, REST  **DevOps:** Git, GitHub Actions, ADO, SonarCloud, YAML, Docker, Jenkins   
**Back-end Tech:** .NET Web API, Azure Functions, Spring Boot, SQL, SQLite, Java, ADO.NET Entity Framework   
Cloud: Azure, Azure Functions, Storage Accounts, Azure Data Factory, Azure SQL DB  
**Dev-Tools:** Visual Studio Code, IntelliJ IDEA, Android Studio, Eclipse IDE

**Testing-Tools:** JUnit, xUnit, Karma, Jasmine,

**Mobile:** Android Dev, Flutter

# Experience

Blue Cross Blue Shield of Kansas City (Cognizant Contractor) 5/15/21 – 12/15/21

Healthcare Solutions Team

* Developed two solutions that serve as interfaces to deliver Faxes and Documents to two different vendors. *First* solution is an API created using .NET Web API, hosted on-premise that relayed Faxes coming from Data Stage into another server also hosted on-premise designed to send the actual Fax to the patients. *Second* solution is an Azure Function, hosted on Azure, in charge of validating, transforming several document types, and sending those to its respective location in a server managed by an external vendor.
* Both solutions followed the Test Driven Development approach.
* Solution number 2 interfaced with Apigee proxy to communicate with the external server. Solution use an Azure Key Vault to store configuration and credentials for more security and easy management.
* Agile methodology was applied throughout the length of the project.
* Managed the CI/CD pipeline cycle for both solutions using ADO Pipelines/Releases.
* Leveraged Azure Data Factory to Extract, Transform and Load files into an Azure SQL DB for reporting.

Cognizant (Enablement) 12/14/20 – 1/8/21

* Developed Instagram-like application called Pixelgram. Tech stack: Spring Boot, Angular, Java, Jenkins, Gitlab, GCP.
* Worked in the Front-end using Angular framework.
* Angular app wrapped in a Spring Boot application
* TDD approach used throughout the length of the project.
* Leveraged Spring Gateway to connect with FEMS and OAuth services.
* OAuth service was leveraged using Spring Security.
* CI/CD pipeline using Jenkins.

Associate Software Engineer – Revature, Reston, VA – 07/13/2020 – 10/12/2020

- Implemented server-side technologies such as C#, .NET Core, ASP.NET Web API, ADO.NET, Entity Framework, and SQL.   
- Leveraged Entity Framework to apply either a Code-First or Data-First approach depending on the project needs.   
- Integrated client-side technologies such as HTML5, CSS, JavaScript and ASP.NET MVC.  
- Used Angular Framework to create dynamic single page applications (SPA).  
- Implemented Test Driven Development using xUnit on applications covering client and server-side.  
- Leveraged Coverlet-Coverage to support line, branch, and method coverage.   
- Executed code analysis using SonarCloud enhancing project workflow with continuous code quality.  
- Leveraged Cloud Computing to deploy web apps to the cloud using primarily PaaS and IaaS.   
- Leveraged GitHub Actions to automate the Continuous Integration / Continuous Delivery pipeline for DevOps.   
- Adhered to SOLID principles in software development for code readability, reusability, and maintainability.  
- Managed workflow in team environments using Agile and Scrum methodologies for effective sprint-based development.

# College work experience

[Check me out](https://github.com/cvchavez2/research-papers/blob/main/College%20Work%20Experience.docx)

# Awards and Acknowledgements

College of Engineering’s Dean’s List: Spring/Fall 2018, Spring 2019.   
College of Liberal Arts Dean’s List: Spring/Fall 2012, Fall 2011

Publications:

* [Towards Improving Urban Mobility with Crowdsourcing Incident Data](https://github.com/cvchavez2/research-papers/blob/main/IRES_Safety_Conference_Paper_2019_v5.0.pdf)
* [Code Reuse Between Android and Java Applications](https://github.com/cvchavez2/research-papers/blob/main/Code-Reuse-Between-Java-and-Android-Applications.pdf)

Conferences:

* The 9th Annual South West HEP/CAMP Student Leadership Conference – Feb. 2019
* ICSOFT 2019 14th International Conference on Software Technologies, Prague, Czech Republic, July 26-28, 2019.