

# BRYAN CUSTODIO

San Antonio, TX

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## EDUCATION

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**University of Texas at San Antonio**  
B.S. in Computer Science  
Concentration in Software Engineering  
GPA: 3.76

August 2018 - December 2020

**Northwest Vista College**  
A.S. in Computer Science  
GPA: 3.80

August 2016 - December 2018

## EXPERIENCE

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**Southwest Research Institute**  
*Computer Scientist*

January 2021 - Current  
*San Antonio, TX (Hybrid)*

- Incorporated multiple Wrong Way Driver protocols that monitored Florida roadways to detect wrong way drivers and report incidents to SunGuide (Advanced Traffic Management System) so that operators can react appropriately.
- Developed REST API's to allow the communication between devices and ATMS software.
- Implemented MQTT (A publish-subscribe service) protocol to successfully integrate MHCOrbin devices into software.
- Designed and created new user interfaces for ATMS software using Windows Presentation Foundation.
- Added new UI elements on android app with the help of Android Studio & Java.
- Maintained and upgraded Microsoft SQL Server databases used in production.
- Incorporated OAuth 2.0 on ATMS software to grant software access to protected user resources.
- Avoided countless bugs in the design phase by providing guidance to colleagues who were working on Crystal Reports or on the Incident Detection subsystem of SunGuide.
- Reviewed and provided feedback on pull requests to ensure code merged into production was of the highest quality.
- Improved client satisfaction by addressing multiple backend/frontend bugs with the help of JIRA.
- Provided 24/7 on-call troubleshooting and support for traffic monitoring software.
- Assisted in cost estimation of enhancements to ensure that the hours bid were at a reasonable rate.
- Built unit tests using NUnit to ensure the code produced was of the highest quality.

**The Home Depot**  
*System Engineering Intern*

June 2020 - August 2020  
*Austin, TX (Remote)*

- Research and implement Falco (an open-source threat detection engine) onto Kubernetes Clusters to add an additional layer of security.
- Utilized Scrum to successfully develop project in a timely manner.
- Effectively communicated the benefits & importance of the Falco project to multiple developers with different levels of technological knowledge.

**Harland Clarke**  
*Software Quality Analyst Intern*

June 2019 - August 2019  
*San Antonio, TX*

- Developed a Java program to autonomously go through any website and create accessibility reports using the Attest API.
- Implemented Java program to Jenkins so the project can be used by all departments.
- Execute, maintain, and build automated test scripts written in Java.
- Review automation results and log defects in corporate defect management system.

**Northwest Vista College**  
*Programming Tutor*

May 2019 - December 2020  
*San Antonio, TX*

- Assisted students in various Computer Science related subjects.
- Learned crucial social and problem solving skills.
- Regularly spoke with faculty and staff on how I can assist students in a manner that benefited their classes.
- Provide feedback to students using positive reinforcement techniques to encourage, motivate, or build confidence in students.

## TECHNICAL STRENGTHS

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**Advanced** = .NET Framework, C#, Java, Git  
**Intermediate** = SQL, C, Python