

# Bryan Custodio

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## WORK EXPERIENCE

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### Southwest Research Institute

*Software Engineer I*

*Software Engineer II*

**January 2021 – Present**

*San Antonio, TX (Hybrid)*

- Integrated multiple Wrong Way Driver detection protocols to monitor Florida roadways, enabling real-time incident reporting to SunGuide (Advanced Traffic Management System) for operator response and intervention.
- Developed REST APIs to facilitate communication between devices and ATMS software.
- Implemented the MQTT publish-subscribe protocol to integrate MHCORBIN devices into the software seamlessly.
- Designed and developed new user interfaces for ATMS software using Windows Presentation Foundation (WPF).
- Developed and integrated new UI elements into the Android app used by SunGuide, utilizing Android Studio and Java.
- Led the development and migration of a legacy PHP website to a modern React-based architecture.
- Managed and optimized Microsoft SQL Server databases in production, ensuring performance, security, and scalability.
- Implemented OAuth 2.0 authentication in ATMS software to securely grant access to protected user resources.
- Proactively prevented numerous bugs during the design phase by providing guidance to colleagues involved in the development of SunGuide software.
- Reviewed and provided constructive feedback on pull requests to ensure only high-quality code was merged into production.
- Enhanced client satisfaction by efficiently addressing and resolving multiple backend and frontend bugs using JIRA.
- Provided 24/7 on-call troubleshooting and support for traffic monitoring software, ensuring continuous system reliability and performance.
- Assisted in cost estimation for software enhancements, ensuring that bid hours were aligned with reasonable and accurate rates.
- Developed unit tests using NUnit to ensure the highest quality and reliability of the code produced.

### The Home Depot

*Systems Engineering Intern*

**June 2020 - August 2020**

*Austin, TX (Remote)*

- Researched and implemented Falco, an open-source threat detection engine, on Kubernetes clusters to enhance security with an additional layer of protection.
- Utilized Scrum to successfully develop projects in a timely manner.

### Harland Clarke

*Software Quality Analyst Intern*

**June 2019 - August 2019**

*San Antonio, TX*

- Developed a Java program to autonomously navigate websites and generate accessibility reports using the Attest API.
- Implemented a Java program in Jenkins to streamline project accessibility and usage across all departments.

## EDUCATION

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### University of Texas at San Antonio

*Bachelor of Science, Computer Science*

**December 2020**

*San Antonio, TX*

## SKILLS & INTERESTS

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- **Skills:** .NET Framework, C#, Java, Git, SQL, C, Python, JavaScript, Typescript, React