

# Jesus Martinez

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## EDUCATION

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**University of Texas Rio Grande Valley | 1201 W. University Dr, Edinburg, TX 78539**

July 2018 - December 2022

- Bachelor of Science in Computer Engineering
- Overall Current GPA: 3.67 | Major GPA: 3.78
- UTRGV Dean's List, 2018 - 2021
- UTRGV President's List, 2020 - 2021

## EXPERIENCE

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**Software Engineer Intern**

June 2022 - August 2022

[Procter & Gamble \(P&G\)](#) | Cincinnati, Ohio

*Tools & Technologies - Python | SQL | AWS | Azure | Git | Power BI | Jupyter Notebook*

- Developed an end-to-end automated Azure SQL Database & Virtual Machine optimization process using Machine Learning to determine rightsizing candidates and savings value generated. Estimated annual savings- \$2.3 Million.
- Designed an automated solution to perform monthly allocation of Amazon Web Services (AWS) Backup Charges.
- Created a system to fairly split charges between the application teams that consumed backup charges.
- Designed the ingestion process for backup charges and rightsizing summary into an SQL Database.
- Presented Project Results at both the midpoint and endpoint of the internship to ITS Leadership.

**Undergraduate Research Assistant**

January 2022 - May 2022

University of Texas Rio Grande Valley - [CREST MECIS](#) | Edinburg, TX

*Tools & Technologies - Python | Linux | CARLA*

- Undergraduate research assistant in the area of Artificial Intelligence, more specifically in autonomous transportation.
- Current project consists of creating an autonomous vehicle simulator, where one can sit and experience autonomous transportation with different scenarios. (Funded by the NSF)
- Lead programmer, tasked with creating different scenarios using the CARLA python API and training an agent using reinforcement learning.

**Data Structures & Algorithms Teaching Assistant**

August 2021 - December 2021

University of Texas Rio Grande Valley | Edinburg, TX

- Assisted classes combined for over 90 students with assignments/projects or any questions they may have.
- Graded assignments and projects which were written in C++.

**Software Engineer Intern**

June 2021 - August 2021

[Lob](#) | San Francisco, CA

*Tools & Technologies - JavaScript | Node | SQL | Postgres | AWS | Docker | Datadog | Sentry | Jira | Postman | Git*

- Developed endpoints for employees to process requests to redact personal information from databases which reduced workload from engineers and possible user error.
- Created an environment using Docker for local development and testing for my redactions project.
- Increased security and overall API performance by upgrading dependencies in a large codebase.
- I ran a series of load and functional tests on a third party webhooks as a service platform before deciding to move forward with them. New events system reduced engineering time, resources and ongoing maintenance.
- Read about some of the work I did. - <https://www.lob.com/blog/protecting-privacy-with-data-redaction>

## LEADERSHIP

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**Frontera Devs Lead**

January 2022 - Current

[Frontera Devs](#) | Edinburg, Texas

- Our mission is to empower developers across the Rio Grande Valley with the resources and support they need to become leaders in tech.
- I am currently driving the first inaugural Frontera Devs hackathon and leading a team to help us cross the finish line.

## SKILLS & TOOLS

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- Languages: C++ | Python | JavaScript | CSS | HTML5 | Ruby | SQL
- Development Tools: Docker | AWS | Azure | Node.js | Jira | Git | Postman | Jupyter Notebook | API development
- Soft Skills: Teamwork | Excellent Written and Verbal Skills | Time Management | Fast Learner | Public Speaking