

Jesus Martinez

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EDUCATION

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

Software Engineer Intern

June 2022 - August 2022

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

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

- Develop an end-to-end automated Azure SQL Database Platform-as-a-Service (PasS) optimization process using Machine Learning to determine rightsizing candidates and savings value generated.
- Design automated solution to perform monthly allocation of Amazon Web Services (AWS) EC2 Backup Charges.
- Present 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 | 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

- Assist two classes combined for over 90 students with assignments/projects or any questions they may have.
- I also grade assignments and projects which are 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

- Created endpoints for employees to process requests to redact personal information from databases which reduced workload from engineers and possible user error.
- Created development 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.
- Read about some of the work I did. - <https://www.lob.com/blog/protecting-privacy-with-data-redaction>

LEADERSHIP

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

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

PROJECTS

- Personal Website - <https://martje55555.github.io/>
 - Tools & Technologies - React | NPM | Github-Pages