

Brian D. Gutierrez

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EDUCATION

The University of Texas at Rio Grande Valley | Edinburg, TX

B.S. in Computer Science | GPA: 3.4/4.0

May 2023

- ACM Member (Association for Computing Machinery)
- UTRGV Hackathon and TAMUthon participant with an award for best beginner project

TECHNICAL SKILLS

Languages: Python, Dart, Java, C++, C#, Ruby, Rust, SQL

Libraries & Tools: GitHub, GitHub Actions(CI/CD), Flutter, TensorFlow, Linux(Ubuntu), Jira

PROJECTS

[Connect Four AI](#) | **Senior Project, UTRGV** | Python, Django

Spring 2023

- Collaborated in a team of 3 to explore multiple algorithms that can perform on low end machines quickly.
- Led the team in development and presentation in our deterministic AI program before also porting to the web.

[Homebrew Coffee](#) | **Software Engineering 2, UTRGV** | Flutter, Dart

Mar 2023

- Created a mobile application from a Figma mockup to recommend the correct amount of coffee grounds and water based on users input for the type of grounds being used and the desired amount of cups.
- Utilized test driven development to invoke the CI/CD pipeline in GitHub Actions for optimal code coverage.

[Bitcoin Calculator](#) | **Software Engineering 2, UTRGV** | Flutter, Dart

Apr 2023

- Utilized an API to extract the exchange rate between Bitcoin and USD to convert the amounts accordingly based on the user's desired transaction.
- Implemented API mock data to make sure professional practices are followed and do not interrupt CI/CD testing.

[Asynchronous Web Server](#) | **Systems Programming, UTRGV** | Rust, HTML

Dec 2022

- Developed a web page that is able to handle multiple requests at once through learned concepts of Rustlings.

[Simon Says AI Chat Bot](#) | **Software Engineering 2, UTRGV** | Python, Jupyter

May 2023

- Utilized TDD to develop a prompt that simulates actions for a game of Simon Says. Using the openai import on Jupyter notebook to modify the LLM for the given tasks while protecting against prompt attacks, the application was deployed through HuggingFace.

[Portfolio](#) | **Personal Project** | HTML, CSS, Javascript

PROFESSIONAL EXPERIENCE

Full Stack Maintenance | [ProAm Beach Soccer](#) | **South Padre Island, TX**

Summer 2023

- Debugged legacy code that led to an increase in speed on iOS devices upon data entry for scores.
- Corrected logic based on given parameters for the teams to be able to schedule, reschedule, and input scores.

Grader, Mentor, Coordinator | **TexPrep UTRGV** | **Edinburg, TX**

Summer 2022

- Mentored over 300 Introduction to Programming students, explaining challenging concepts to both Computer Science and non-technical majors. Coordinated and graded weekly assessments in logic, coding, and engineering.

NON-TECHNICAL WORK EXPERIENCE

Manager, Server | **Gambas Mexican Seafood Grill** | **Edinburg, TX**

Jul 2016 - Nov 2021

- Coordinated schedules for employees and checked and prepped food from incoming deliveries.