Marian Padron

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LinkedIn | GitHub | Website

EDUCATION

Northeastern University - Boston, MA **Sep 2022 – Present**
Master of Science in Computer Science **- GPA: 4.0/4.0** *Expected graduation May 2025*

- **Relevant Coursework***:* Discrete Structures, Data Structures, Algorithms, Object-Oriented Design, Database Management Systems, Mobile Application Development

University of Miami - Coral Gables, FL **Jan 2018 – May 2021**
Bachelor of Business Administration in Finance and Real Estate, Minor in Accounting **- GPA: 3.9 / 4.0**

- **Honors:** Magna Cum Laude, President's Honor Roll, Provost Honor Roll and Dean's List

TECHNICAL SKILLS

Languages: Python | Java | C | SQL | HTML | CSS | JavaScript | MySQL
Frameworks: GitHub | Selenium | Pandas | NumPy | Turtle | Flask | Tkinter | Swing | Bootstrap | SQLite
Development Tools: IntelliJ | PyCharm | VS Code | Junit | PyUnit | Git | Windows | Linux | Mac

PROJECT EXPERIENCE

Photobook Animator - https://github.com/marianpadron/ShapesPhotoAlbum

- Developed a **Java** photobook program following **Model-View-Controller** and **Object-Oriented Design** patterns, enabling console inputs to create graphic albums based on text-based file descriptions.
- Designed a versatile view component capable of rendering graphics to user through **Swing** or **HTML** for web viewing, and conducted extensive testing using **Junit** to ensure all program components worked seamlessly.

Sliding Puzzle Game - https://github.com/marianpadron/SlidingPuzzle

- Built a **Python** run combination puzzle that uses **Turtle** graphics and an **Objected-Oriented Design** pattern for seamless game functionality.
- Implemented in-game error handling to validate user inputs, logging a comprehensive error history into a txt file for reference.

Vehicle Registration System - https://github.com/marianpadron/VehicleRegistrationSystem

- Created a **Java** vehicle registration system designed with **SOLID** design principles to maintain a flexible and understandable **Object-Oriented Design,** and ran system tests using **Junit** following a specific rubric.
- Utilized proper encapsulation practices such as a **singleton class**, established class protocols through **interfaces** to improve reusability, and implemented **higher-order functions** to enable filtering of the different vehicle registrations.

Spotify Time Machine Playlist Creator – https://github.com/marianpadron/SpotifyTimeMachine

- Implemented a simple **Python** program using **procedural programming** that takes a user-provided date, searches the top songs from that time, and generates a personalized Spotify playlist in the user's account.
- Utilized **BeautifulSoup** to parse through Billboard's Hot 100 website of a given date and employed Spotify **API** to search for songs and add them to a personalized playlist.

WORK EXPERIENCE

America's Capital Partners **Coral Gables, FL**
Financial Analyst / Underwriter *May 2021 – February 2022*

- Underwrote financial models for different types of real estate asset classes including office, multifamily, and industrial. Reviewed sellers' OM and property appraisals and compared to in-house projected models.
- Assisted in aspects of asset management by reviewing financial reports and checking for abnormalities and areas of potential cash flow improvement.

ADDITIONAL INFORMATION

Languages: English | Spanish | French (intermediate)
Other tools: Excel | Bloomberg Terminal | Google Colab | Argus | Tableau