

# Yaniel Gonzalez Velez

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## EDUCATION

**Bachelor of Science in Computer Science**, University of South Florida, Tampa, FL August 2025

**GPA:** 3.95/4.00

*Relevant Coursework:* Data Structures, Algorithms, Software Systems, Database Design, Operating Systems

## SKILLS

Programming Languages:	C, C++, C#, Python, JavaScript, CSS, HTML, Ruby, SQL
Software:	Microsoft Office Applications, PostgreSQL, Visual Studio 2022, Visual Studio Code
Languages:	English (Fluent), Spanish (Native)
Technical Skills:	Dynamic Programming, Object-Oriented Programming, Multithreading/Parallelism

## KEY PROJECTS

**Candlestick Analyzer**, USF, Tampa, FL April 2025

- Implemented a C# Windows Forms tool to calculate and visualize Fibonacci retracement levels on candlestick charts, enhancing stock analysis and predicting future price movements.
- Created interactive drag-and-drop selectors and dynamic sliders for precise wave and trend analysis across customizable time ranges.
- Optimized multi-file CSV loading and data binding for scalable stock dataset visualization, ensuring smooth performance in Visual Studio 2022.

**Unix Shell**, USF, Tampa, FL November 2024

- Constructed a Unix shell in C that executes commands via child processes using fork(), improving efficiency in process management and command execution.
- Integrated built-in commands by using execv() to run external programs, allowing users to navigate directories and execute system commands seamlessly.
- Enabled output redirection and parallel execution by handling file descriptors and process control, improving multitasking and command-line efficiency.

**Pharmacy Management Website**, USF, Tampa, FL May 2024

- Collaborated with a team to develop a pharmacy management website using ASP.NET Core MVC, improving inventory tracking and prescription management.
- Designed user interface with data filters and navigation systems for better accessibility and search efficiency.
- Built the website with HTML, CSS, JavaScript, C#, and a PostgreSQL database for data management.

## WORK EXPERIENCE

**Intern**, Suncoast Credit Union, Tampa, FL July 2020

- Collaborated with a team to design a \$100 budget plan addressing hunger through a community garden
- Proposed a multiphase strategy that included fundraising, infrastructure setup, and community involvement to ensure project sustainability
- Presented the detailed plan to the Suncoast Credit Union board, explaining its impact in reducing hunger and building a better community

## ACTIVITIES

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|---|-----------------------------|
| <b>Member</b> , Society of Competitive Programmers, USF Student Chapter | February 2022 – August 2025 |
| <b>Member</b> , IEEE Computer Society, USF Student Chapter              | February 2022 – August 2025 |

## HONORS AND AWARDS

- Dean's List**, USF Fall 2024, Spring 2024, Spring 2025