Marcelo Hernandez

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Education

Florida International University, *BS in Computer Science*   Aug 2024 - May 2027
- **Relevant Coursework:** Programming I & II, Data Structures & Algorithms, Object-Oriented Programming
- **Activities:** Break Through Tech, INIT, ColorStack, Society of Hispanic Professional Engineers (SHPE)

Google Tech Exchange, *Technical Program*   Jan 2025 - May 2025
- **Selected from 1,500+ candidates** to receive technical interviews and system architecture/software engineering coaching
- **Courses:** Algorithm & System Design, Introduction to Software Engineering, and Careers in Tech

Skills

Languages: Java, JavaScript, TypeScript, Python, Golang, Rust, C/C++, Bash, SQL
Technologies: React, NextJS, Vercel, Git, GitHub Actions, Linux, Azure DevOps, Vim, Streamlit, BigQuery, WordPress

Experience

Florida International University   June 2025 - Present
Student Program Assistant
- Contributing to expanding computer science education to **hundreds of students** by coordinating workshop facilities and curriculum development for Code.org, Break Through Tech, and more organizations' initiatives.
- **Redesign and maintain** low-to-high traffic websites utilizing WordPress showcasing our work and offering contact avenues.

KBR, Inc.   May 5th - May 23rd 2025
Software Engineering Intern
- **Designed and implemented** a conversion mechanism for J1708 vehicle diagnostic messages to the ASAM MDF 4 format using C++ intended to run on a large-scale embedded device, in a **team of five software engineers**.
- **Established a CI/CD pipeline** on the Azure DevOps cloud platform for automated testing and enforcing formatting.
- Delivered quickly and effectively in a three week long sprint internship hosted in collaboration with **Break Through Tech**.

Miami Dade College   Feb 2023 - Aug 2025
Computer Science Tutor
- Coached **over 100 students** on implementing data structures and creating projects using Java, C/C++, SQL, and Python.
- **Increased students' GPA by 20%** and significantly increased classroom participation rates across multiple subjects.

Competitions

NASA Lunabotics Challenge 2025, *FIU Panther Robotics*   github.com/FIU-Lunabotics/FIU-Luna0
- Developed a client-server architecture in Python for a lunar rover in a team of 15+ people, for real-time communication between an operator's inputs and the rover.

ICPC Southeast USA Regional 2022, *MDC Cybersharks*
- Won silver medal in Division 2 with my group of 3 teammates, solving the proposed challenges using Java and Python.

Projects

atmpt - *Rust, Github CI, Command-Line*   github.com/marcelohdez/atmpt
- Create and open temporary coding projects in your editor, leading to a **decrease in time-to-code by 40%**.
- Implemented CI/CD pipeline with GitHub Actions for **automated testing and deployment**.

Define4Me - *Java, MVC, JSON, REST API*   github.com/marcelohdez/Define4Me
- Built a dictionary application using Java and **MVC architecture** that leverages the **Free Dictionary API** to define words.
- Implemented **JSON parsing** to efficiently process API responses and present definitions in a user-friendly format.

Bedroom - *Java, Swing API, Data Visualization*   github.com/marcelohdez/bedroom
- **Zero-dependency Java application** for call center agents to track their orders with **interactive data visualization**.
- Implemented customizable UI and shortcuts, **improving productivity and reducing manual calculations**.