

# 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 & Algorithm Techniques, Computer Architecture
  - **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/Shell, SQL  
**Technologies:** Git, CI/CD, Linux/Unix, Azure DevOps, Node, React/Next.js, Vim, Streamlit, BigQuery, WordPress

## Experience

- Florida International University** June 2025 - Present  
*Student Program Assistant*
- Contributed to expanding computer science education to hundreds of students and educators by **coordinating workshop facilities and curriculum** for Break Through Tech, Code.org, 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](https://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 on a Linux device and the rover's Raspberry Pi.
- 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](https://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](https://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](https://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**.