

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.

Experience

Lyft

Incoming May 2026

Software Engineer Intern

- Will be joining the Self-service Intelligence team to create **AI agents** to address suboptimal experiences for drivers and users.

Cloudflare

Jan 2026 – Apr 2026

Software Engineer Intern

- Implemented network session logs for L4 traffic in Cloudflare One's Zero Trust Connectivity team, **improving observability** for our internal routing service, Apollo, which handles **over 100K requests per second** globally.
- Built **end-to-end verification tests** into the existing test suite, ensuring correctness across service hops and restart scenarios.
- Coordinated schema and field precedence logic changes across three teams for connections with multi-service hops.

Florida International University

Jun 2025 – Jan 2026

Student Program Assistant

- Contributed to the expansion of computer science education for 100+ students by **coordinating workshops and curriculum** for Break Through Tech's Sprinternship program, and facilitating workshops initiatives for organizations like Code.org.
- **Redesigned and maintained** websites with consistency utilizing WordPress to showcase our programs and contact avenues.

KBR, Inc.

May 2025

Software Engineer 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' grades by 50%** and increased their classroom participation rates.

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 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

- 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**.

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**.

dim – *Rust, Wayland, Github CI, Linux Packaging*

github.com/marcelohdez/dim

- Native Wayland screen dimming tool which can be chained in scripts, **CI tests compilation and generates manpages**.

Skills

Languages: Rust, Go, Python, C/C++, JavaScript/TypeScript, Java, Bash/Shell, SQL

Technologies: Git, CI/CD, Linux/Unix, Azure DevOps, Node.js, React/Next.js, Vim, Streamlit, BigQuery