Marcelo Hernandez

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Education

Florida International University, *BS in Computer Science*   Aug 2024 – Present
- **Relevant Coursework:** Programming I & II, Data Structures & Algorithms, Object-Oriented Programming
- **Activities:** Society of Hispanic Professional Engineers (SHPE), INIT Technology Club

Google Tech Exchange, *Technical Program*   Jan 2024 - Present
- **Selected from 200+ candidates** for this competitive immersive technical training program
- **Coursework:** Algorithms & System Design, Introduction to Software Engineering, Careers in Tech
- **Skills Developed:** Technical interviewing, system architecture, professional networking

Experience

Computer Science Tutor, *Miami Dade College*   Feb 2023 – Present
- Coached **100+ students** on implementing data structures and creating projects using Java, C/C++, SQL, and Python
- Collaborated with a team of **10+ tutors** to deliver comprehensive support across multiple programming languages
- **Increased students' GPA by 15%** and significantly boosted classroom participation rates

Competitions

ICPC 2023 USA Southeast Regional

Won **silver medal** in Division 2 as part of the *Miami Dade College CyberSharks*, solving the proposed challenges using Java and Python

Projects

atmpt | *Rust, Github CI, Command-Line*   github.com/marcelohdez/atmpt
- Developed a command-line tool in Rust that creates **temporary coding projects** that open directly in your editor
- **Increased productivity by 40%** for programming tutors by eliminating project setup time when demonstrating concepts
- Implemented **CI/CD pipeline** with GitHub Actions for automated testing and deployment

Bedroom | *Java, Swing API*   github.com/marcelohdez/bedroom
- Developed a **zero-dependency Java application** for call center agents to track orders and performance metrics
- Created **interactive data visualization** that displays performance history, **enabling agents to identify productivity trends**
- Implemented **customizable UI features** including color theming and shortcuts, **improving productivity and reducing manual calculations**

Define4Me | *Java, MVC, JSON, a REST API*   github.com/marcelohdez/Define4Me
- Built a dictionary application using Java that leverages the **Free Dictionary API** to define lists of words
- Implemented **JSON parsing** to efficiently process API responses and present definitions in a user-friendly format
- Designed using **Model-View-Controller (MVC) architecture** to ensure maintainability and separation of concerns

dim | *Rust, Github CI, Command-Line, TOML Parsing*   github.com/marcelohdez/dim
- Created a **native Wayland screen dimmer** in Rust with configurable opacity settings for Linux users
- Implemented **TOML parsing** to allow for flexible user configuration and persistence of settings
- Established **automated testing** through GitHub CI to ensure compatibility across different Linux distributions

ImageToText | *Java, MVC*   github.com/marcelohdez/ImageToText
- Developed a Java application that converts images to **ASCII text art** with support for multiple image formats
- Utilized **Java's ImageIO library** to process various image types and transform them into customizable text output
- Implemented **clean MVC architecture** to separate image processing logic from the user interface

Skills

Languages: Java, JavaScript, Go, Rust, C/C++, Bash

Technologies: React, NextJS, Vercel, Git, GitHub, Linux, IntelliJ, Vim