Edyan Cruz

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Education

B.S. in Software Engineering, *University of Puerto Rico Mayagüez Campus (UPRM)* — Aug 2022 – May 2027, Mayagüez, Puerto Rico
- **Relevant Coursework**: Advanced Programming, Calculus I-III, Fundamentals of Computing, Data Structures
- **Cumulative GPA**: 3.91
- **Honors**: Dean's List for academic year 2022-2023

Google Tech Exchange, *Virtual* — Jan 2024 – May 2024
- **Relevant Coursework:** Applied Data Structures, Careers in Tech, Software Development Studio, Intro to Product Management

Technical Skills

Languages (C++, JavaScript, TypeScript, Kotlin, Java, Python), **Technologies** (Git, Node.js, Android Studio, Linux, Docker, ROS, HTML, CSS.)

Experience

STEP Intern, *Google* — May 2024 – Aug 2024
- Set to intern with **Google's** Student Training in Engineering Program (**STEP**) during Summer 2024.

Mentor for UPRM Hacks Camp 2023, *University of Puerto Rico Mayagüez Campus (UPRM)* — Jun 2023 – Jul 2023, Mayagüez, Puerto Rico
- Guided and supported a cohort of 30 students, offering hands-on assistance in coding, app design, and problem-solving using MIT App Inventor.
- Improved group collaboration and participation by 30% through a series of interactive trust-building activities, fostering a collaborative and inclusive learning environment.

Projects

Software Architect Leader, *RUMarino Autonomous Underwater Vehicle (AUV) Team* — Dec 2022 – present
- Led a team of 3 software engineers in the design, implementation, and maintenance of the software architecture for RUMarino's AUV, which will participate in the RoboSub 2024 competition.
- Designed the AUV's software architecture in collaboration with other divisions, enhancing modularity, scalability, and ease of mainteinance through the use of **ROS** and **Docker**.
- Developed the task planning framework for the AUV to autonomously plan and execute complex tasks based on sensor data utilizing **Python** and **SMACH** (state machines).

FlightTracker Pro, *CodePath Project (Source code available upon request)* — Nov 2023
- Collaborated with a 3-person team building an **Android** flight tracking **app** in **Kotlin** using **Android Studio** over 3 weeks.
- Led implementation of core UI/UX including **layouts**, **views**, **toolbar**, and **RecyclerView** to display flight data from Aviationstack API.
- Integrated multiple search query options (flight number, airline, airports) to allow users to lookup flights in different ways.

Discord Applications Bot, *Personal Project* ⬈ — Jun 2023 – Jul 2023
- Created a user-friendly Discord bot using **TypeScript** and **Node.js**, allowing server moderators to seamlessly collect, manage, and organize user applications within the platform interface.
- Added CSV export of form data by employing the **Sequelize** library to integrate **SQLite** as a **relational database**.
- Improved code quality and reliability by conducting a comprehensive rewrite from **JavaScript** to **TypeScript**.

Extracurriculars

CodePath Intro to Android Development, *Student* — Sep 2023 – Nov 2023
- Learned Android development basics including **Android Studio**, **Kotlin**, and designing UIs with views and layouts.
- Collaborated with peers to build apps integrating **REST APIs** and **JSON data parsing**, emphasizing UI design principles.
- Led a 3-person team in building a flight tracking app over 3 weeks for CodePath's Demo Day, demonstrating skills in writing product specs, wireframing, and development.

UPRM Competitive Programming Team, *Member* — May 2023 – Oct 2023
- Collaborated with a team of three members, including myself, to solve challenging programming problems utilizing **C++**, fostering effective communication, teamwork, and creative thinking.
- Achieved the title of Regional Champion for Puerto Rico at the **2023 ICPC Caribbean Finals (Qualifier) competition**, securing a **gold medal** and an impressive 38th place ranking among all participating groups from Caribbean nations.