# ISAAC DEL CASTILLO

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## EDUCATION

**Bachelor of Science in Computer Science**                                                                                              **August 2024**
Florida International University; Miami, FL
- GPA: 3.37
- Relevant Coursework: Data Structures, Programming II (Java), Software Engineering I, Calculus I & II, Machine Learning, Database Management

## SKILLS

React| HTML | CSS | JavaScript | MySQL | Python | Java | GitHub | VSCode | Git

## EXPERIENCES

**Florida International University | 11200 SW 8th St** | Miami, FL                                                          **March 2024 - Present**
*It Systems Assistant*
- Assist with various activities, such as debugging network connectivity issues and diagnosing hardware and software problems. Helped with hardware installation, website management, and software updates. Additionally, worked with a variety of programming languages and operating systems.

*I.T. Intern*                                                                                                                              **July 2019 - August 2019**
- Learned the fundamentals of front-end development, including HTML, CSS, and JavaScript. Collaborated with a team to apply this knowledge by developing a website that integrated these core technologies.

## PROJECTS

**Live Collaborative Drawing App**
- Developed a real-time collaborative drawing application leveraging Node.js, Express, and Socket.IO, enabling multiple users to draw simultaneously on a shared canvas. Implemented WebSocket communication for live updates, utilized SQLite and MySql for session management and data persistence, and optimized for seamless performance. Integrated dynamic event handling for user interactions and ensured cross-browser compatibility with HTML5 and JavaScript.

**API Integration and Database Management**
- Created an API service to support a mock online web application bookstore. My team completed the project using the POSTman API platform, Java, Spring, and MySQL. My feature included creating a User, retrieving that user's info, creating a credit card for that user, and having it all stored in the database to have Postman retrieve that data through different endpoints.

**Pharma-Vision**
- Developed a healthcare-focused application designed to streamline communication between doctors, pharmacists, and patients by securely tracking and managing patient prescriptions. The app utilizes React.js for the front-end, Supabase for the back-end, and Python with OpenCV and Roboflow APIs for AI-powered video detection to count and identify different pill types. This solution enables pharmacists to automate medication handling and collaborate with doctors on prescription details. Overcame challenges with model selection for pill detection and custom user authentication.

**Neighborhood Connect**
- Developed an iOS app using SwiftUI enabling users to join or create neighborhood groups within specified zip codes and organize local events. Integrated Firebase Authentication for user sign-up and login, with group chats, events, and groups stored in the Firebase Realtime Database. Implemented Apple Maps API to display event locations, providing users with directions and hosting details. The app fosters local community engagement through real-time interaction and event coordination.