

# JIN CARBALLOSA

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## SUMMARY

Computer Science major with hands-on experience in driving codebase optimizations and UI/UX improvements. As an executive board member of Code Culture at FIU and a CodePath Tech Fellow, I have supported thousands of programmers and led initiatives that fostered technical growth and community engagement. My background includes developing scalable applications using HTML, CSS, JavaScript, and React, and implementing features that significantly enhance user experiences. Eager to advance my career as a software engineer, I aim to leverage my problem-solving skills and passion for technology.

## EDUCATION

### Florida International University

Expected: May 2026

B.S. In Computer Science | GPA: 4.0

**Associations:** [CodePath E3](#) [Code Culture E-Board](#) [INIT](#) [SEDS](#) [SHPE](#) [GCI](#)

**Certifications:** [AT&T Technology Academy](#) [Web-Dev Bootcamp](#) [MDC Intel Digital Trust](#)

## LEADERSHIP

### CodePath Tech Fellow

Sept 2024 – Nov 2024

Mentored over 20 students weekly in a Technical Interview Preparation course, delivering support in problem-solving and technical guidance to enhance students' coding abilities. Tracked student progress and identified areas of improvement, leading to a 30% increase in coding proficiency among participants.

### CodePath Pod Leader

June 2024 – Present

Built strong relationships with over 10 program participants by organizing team-building events, enhancing the group dynamic and fostering collaboration among peers. Led weekend practice sessions focused on LeetCode problems, facilitating an environment for hands-on practice in algorithms and data structures, boosting participants' confidence.

## SKILLS

**Technical:** DSA C++ Java Python JavaScript React HTML/CSS VCS/Git AI/ML Robotics

**Hardware:** Circuit analysis PC Assembly Microcontroller Embedded Systems Unix/Windows

## PROJECTS

### Butterfly Garden Monitoring System | INIT Build FIU

Oct 2024 - Dec 2024

Collaborating with FIU's Green Campus Initiative to develop an AI-powered motion sensor using Ultrasonic and mmWave technology for real-time visitor tracking. Designed and implemented Python-based systems on microcontrollers with a React.js frontend for analytics and maintenance. Aiming to enhance biodiversity and engage over 500 visitors per semester.

### Headstarter AI

July 2024

Developed AI and web applications, including a Next.js inventory management app with Material UI, Firebase integration, and CI/CD deployment on Vercel. Led a chatbot project with Gen-AI models (Open AI and Gemini), AWS EC2 deployment, and LLM orchestration. Focused on intrapreneurship in startups, supporting engineering teams, and strategic outreach.

### Code Culture Build

Feb 2024

Developed a full-stack social media platform for programmers, implementing REST APIs for post and comment management. Built schemas for CRUD operations and integrated Google API for secure login. Created a responsive front-end with Next.js and CSS Flexbox, featuring dynamic navigation, pagination, dark mode, and a post creation page.

### Arduino Flappy Birds

Feb 2024

Developed a C++ Arduino game inspired by Flappy Birds using a 16x2 LCD screen and button controls. Implemented game logic, collision detection, and display/audio features. Optimized code for smooth gameplay on limited hardware and integrated real-time input handling for responsive controls, highlighting problem-solving in constrained environments.

## WORK EXPERIENCE

### CS Teaching Internship

Aug 2024 – Dec 2024

StateFarm x INIT FIU | Miami, FL

Inspired a passion for technology in K-12 students by delivering engaging programming lessons, introducing concepts of computational thinking and coding fundamentals. Collaborated with fellow instructors and program administrators to tailor lesson plans that catered to different learning styles and grade levels. Gained hands-on teaching experience and contributed over 50 volunteer hours, supporting educational outreach initiatives within Miami-Dade public schools.

### Mobalytics Gaming Market Research

Sept 2024

Extern | Remote

Conducted a comprehensive analysis of gaming genres, game mechanics, and key performance indicators (KPIs) to uncover insights on market trends and player preferences. Reviewed player behavior and psychology to develop strategies aimed at increasing player retention and engagement on the Mobalytics platform. Provided actionable recommendations for Mobalytics to expand its market share by aligning with gaming community expectations.

### eCommerce Order Fulfillment

Feb 2023 – June 2023

Pazaar | Miami, FL

Enhanced order procurement, exceeding shipment quotas by 250%. Managed quality control, packaging, and inventory for 600+ items using ShipStation. Coordinated product purchases and shipments with Amazon, USPS, UPS, and FedEx.

Increased website traffic by 30% in 2 months through SEO strategies such as content creation and keyword optimization.

### Cashier | The Home Depot and The Fishing Game Store

Oct 2020 – Mar 2022