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   GPA: 4.0   **Expected: May 2026**
B.S. In Computer Science
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 by the end of the program.

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

PROJECTS

Butterfly Garden Monitoring System | INIT Build ML/Robotics   **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++ game inspired by Flappy Birds using a 16x2 LCD screen and button controls. Implemented game logic, collision detection, and display 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 Externship   **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**