

Jesus Rey Gonzalez

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EDUCATION

University of Central Florida

Bachelors of Science in Computer Science

May 2024 – July 2028

Orlando, FL

SKILLS

Languages: Python, C, Java, C++, C#, TypeScript, JavaScript, HTML, CSS, SQL

Frameworks/Tools: React, React Native, MongoDB, Docker, Git, Github, Linux, MACOS, Microsoft Word, Microsoft Sheets, Photoshop, Raspberry Pi

PROJECTS

Pathfinder - Chrome Extension

September 2025 – September 2025

Shell Hacks

- Created an accessibility-focused Chrome extension that guided users through websites with step-by-step visual highlights, enhancing navigation for users with challenges and improving usability by 30%.
- Implemented with a Python backend that integrates Google's ADK to interpret user prompts and generate a list of actions that is used to navigate the user through the website.
- Improved on team working experience by using real world technology such as Git, Github, Devpost, & Slack.

Home Lab Personal Project

January 2025 – Present

Personal Project

- Engineered and maintained a smart home server using Raspberry Pi 5 devices, delivering real-time displays, network-wide ad blocking, and local streaming services, enhancing home automation efficiency.
- Developed Python and Java backend to supply device data and a React frontend admin panel to monitor, analyze, and resolve bugs, improving system reliability and user management.

DronePath

October 2025 – October 2025

KnightHacks

- Engineered a drone-routing optimization using greedy load balancing and weighted cost matrices that automated electric-asset inspections, cutting total flight time by approximately 30%.
- Developed a real-time geospatial dashboard using Python (Plotly, Shapely) to visualize mission coverage, detect out-of-bound footage, and optimize drone utilization, enhancing operational oversight.
- Secured 3rd place in Next Era Energy Challenge at KnightHacks 2025 by delivering optimized routing, automated data pipelines, and an interactive visual dashboard, enhancing energy asset inspections.

EXPERIENCE

Product Flow Specialist

May 2024 – May 2027

Orlando, FL

Best Buy

- Organized backroom operations, processed shipments, and maintained compliance with company merchandising and safety standards.
- Managed product flow from receiving to sales floor, ensuring accurate inventory levels and timely stock of high-demand products
- Collaborated with sales team to support product availability, assist with floor resets, and enhance overall store efficiency

After School Counselor

October 2023 – August 2024

Orlando, FL

Palm Beach School Districts

- Supervised daily student activities and managed check-out procedures, ensuring smooth transitions for students and consistent parent communication.
- Promoted program efficiency and reduced incident reports by proactively supporting structured routines and clear behavioral expectations.

EXTRACURRICULARS

Florida Department of Transportation

December 2025 – December 2025

Orlando, FL

Knight Shadow Student

Shadowed IT and Toll Operations teams at the Florida Department of Transportation to understand daily workflows, system management, and operational technology. Gained exposure to active infrastructure projects, including system monitoring, automation initiatives, and cross-team coordination supporting statewide tolling systems. Observed real-time problem solving, incident response, and collaborative processes used to maintain secure, reliable, and high-uptime transportation IT services.

CERTIFICATIONS

AI Mark Cuban Foundation Bootcamp

October 2023

FPL @ Palm Beach Gardens

Completed a 20-hour intensive bootcamp covering emerging technologies, ethical applications, and entrepreneurship with guidance from industry mentors. Developed and presented a capstone AI project that applied real-world problem-solving and demonstrated collaboration, creativity, and data-driven thinking. Joined a network of diverse student innovators and expanded career awareness in AI and tech through hands-on learning and team-based challenges.