Carlos A. Cárdenas

SOFTWARE ENGINEER

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Experience

Touchless Cover LLC | Software Engineer   **March 2025 – Present**

- Currently leading the development of an internal order tracking system to streamline logistics and order visibility.
- Designing and implementing backend APIs, frontend interfaces, and database structures for a future dealer portal.
- Collaborated with stakeholders to gather requirements and propose software solutions tailored to operational needs.
- Contributing to the modernization of internal operations through automation and custom tooling.

Touchless Cover LLC | Quality Control Inspector   **February 2021 – March 2025**

- Inspected products across production stages and maintained quality control databases.
- Created defect reports to identify areas of improvement and significantly reduced quality errors.
- Led monthly strategic meetings to improve product quality and team collaboration.
- Handled dealer inquiries and ensured consistent adherence to quality standards.

Education

University of Central Florida – B.S. Computer Science   **2024**

Miami Dade College – A.A. Computer Science   **2020**

Projects

TBC Tracking System – Internal Tool (In Progress) | *React, Node.js, Express, PostgreSQL, Supabase*

- Responsible for designing and implementing the entire tracking system, including the backend architecture, database integration, and frontend interfaces for both internal use and future dealer-facing access.

DreamBuy – Portfolio Project | *React, Node.js, Express, MongoDB, Socket.io, Nodemailer, JWT*

- Developed both frontend and backend of this solo, full-stack project that replicates a real online store with secure authentication, dynamic cart updates, and simulated order fulfillment.
- Built modular product catalog, cart, checkout components with full routing, and implemented real-time order status updates using Socket.io.
- Integrated JWT authentication, protected routes, and set up Nodemailer for email-based password recovery.

MiSu – Capstone Project | *React Native, AWS, Python, TypeScript, iOS and Android*

- Worked with an Agile-based team of 5 to rebuild a smart home app that allows homeowners to share device access.
- Configured the Raspberry Pi, Home Assistant, and developed WebSocket APIs within the Pi's Python script for real-time device communication.
- Refactored and modularized sections of the legacy codebase to improve stability and readability.

Skills & Abilities

- SWE Concepts: Backend, Frontend, Full-Stack, API Development, Algorithms & Data Structures, Object-Oriented Programming, Problem-Solving, Time Complexity Analysis, Dynamic Programming, Cybersecurity.
- Programming Languages: Python, JavaScript, Java, C, C++, SQL, HTML/CSS, TypeScript.
- Frameworks & Libraries: React, React Native, Express, Flask, Bootstrap 5, Mongoose, Socket.io.
- Developer Tools: Git, GitHub, VS Code, Visual Studio, Postman, Command Prompt, Bash, AWS.