

Hensell De La Rosa

Full-Stack Software Engineer — React, Tailwind, Python (Flask)

Tamaqua, PA • [Portfolio](#) • [GitHub](#) • [LinkedIn](#)

SUMMARY

Full-stack software engineer specializing in workflow-driven operational software and logistics systems—strong frontend developer with an artistic design background combined with backend expertise in Python and Flask. Creator of a full enterprise-style Yard Management System used to model real trailer yard operations, inventory tracking, role-based access control, and driver workflow automation.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML5, CSS3

Frontend: React, TailwindCSS, SCSS, Redux, Responsive UI Design

Backend: Flask, Node.js, Express, REST API Architecture

Mobile: React Native (Expo)

Databases: PostgreSQL, MySQL, SQLite, Supabase

Infrastructure: AWS, Docker, Firebase, NGINX, Git

Architecture: RBAC Systems, SaaS Platforms, Workflow Engines, Relational Data Modeling

PROJECTS

Enterprise Yard Management System (YMS) — Founder & Lead Engineer

Designed and built a full-stack logistics platform for managing trailer inventory, yard movements, and warehouse operations. Developed React + Tailwind operational dashboards for monitoring trailer locations and move workflows. Built Flask REST APIs and relational database models for trailers, locations, users, and move lifecycle history. Implemented role-based access control (RBAC), allowing different operational roles (drivers, managers, warehouse staff). Created a mobile driver workflow interface for move selection, trailer pickup, drop-off, and job completion. Designed a system based on real logistics yard workflows observed in warehouse operations. **LogiIQ — Enterprise Logistics**

Management Platform (In Progress)

Architecting a modular logistics SaaS platform integrating dispatch, warehouse operations, carrier workflows, and vendor ordering. Designing scalable system architecture for dispatch, yard operations, shipment management, and vendor integrations. Building database schemas and APIs for operational analytics and carrier onboarding. **Courset — E-Learning Platform** (2023–2024) Full-stack course platform developed with React, Python (Flask), and PostgreSQL. Implemented user authentication, course management, lesson delivery, and responsive UI. Designed backend API services and relational data models for course content and user progress. **Golden Express Mobile App**

React Native application for transportation booking and route management. Developed trip search, route visualization, and fare calculation features—Integrated Firebase backend for real-time

booking updates.

EXPERIENCE

Truck Driver — Mission Foods | Mountain Top, PA (2019–2024)

Worked within high-volume warehouse logistics operations, handling deliveries, yard coordination, and trailer management. Collaborated daily with warehouse staff, dispatchers, and yard operations teams. Operational experience directly informed the design and workflows of the Yard Management System.