

Manuel Tobal

Full Stack Developer | Software Engineer

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TECHNISKILLS

Javascript, Python, HTML5, CSS, TypeScript, Next.JS, React, Redux, Express, Flask, Sequelize, SQLAlchemy, PostgreSQL, Node.js

PROJECTS

Service Non Stop

[Live](#) | [GitHub Repo](#)

Find your next trade service technician, or provide your own trade service!

- Utilized ReactJS's component-based architecture to create interactive user interfaces, ensuring efficient rendering of dynamic content.
- Designed a responsive user interface using advanced CSS3 techniques and media queries, significantly improving cross-device compatibility and user experience.
- Employed SQLAlchemy, an ORM library, for database management to enable seamless interaction with the database and ensure data integrity and consistency.
- Developed and optimized website architecture to guide users through intuitive navigation, enhancing usability and accessibility while maintaining clarity and coherence in content presentation.

Habit Heroes

[Live](#) | [GitHub Repo](#)

Full stack clone of Habitica. Manage and organize tasks, habits, and to-do's and even collaborate -- all in one place.

- Collaborated with a 3-member engineering team to design and implement responsive CSS styling, ensuring a visually appealing and intuitive user interface.
 - Leveraged Redux to streamline state management and elevate user interface interactivity, establishing a cohesive integration with the back end for efficient data retrieval and optimal application performance.
 - Leveraged React and reusable components to imbue a single-page application with the dynamic functionality of a multi-page application, resulting in streamlined user navigation and optimized content loading efficiency.
 - Utilized Python with Flask to build the backend server, taking advantage of Flask's simplicity and flexibility to handle HTTP requests and responses efficiently.
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WORK EXPERIENCE

Refrigeration Technician (HVAC-R), Raleigh, NC

January 2019 – Current

Envirotrol, Whaley's Food Service, Quality HVAC Services, Mechanical Refrigeration

- Diagnosed and resolved HVAC system faults through strong problem-solving, effective troubleshooting and repairs, ensuring optimal system performance and reliability.
- Managed and collaborated with technicians, contractors, and clients to successfully complete HVAC installations and repairs.

Arabic Reading Teacher (Remote)

January 2020 – Current

Local Community, Dar-at-Tajweed, Islamic Institute of Texas

- Effectively explained complex concepts and lesson materials to students, mentoring them and facilitating clear communication
 - Developed comprehensive lesson plans, educational materials, and schedules, ensuring efficient guidance and execution of classroom activities.
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EDUCATION

Software Engineering

App Academy – 2024

Heating, Ventilation, and Air Conditioning

Wake Tech Community College – 2018

Human Services

Passaic County Community College – 2012