

Melissa Santana

Full Stack Developer

 melissamonteirosant@gmail.com |  +55 (92) 981136639 |  melsantana.com

Profiles

Linkedin	GitHub
MelissaSantana	MelissaSantana1

Skills

HTML	CSS	Node JS	Beekeeper Studio	Redis
React JS/ Native	PHP	C#	Java	Docker
Git/ GitHub	Tailwind CSS	PostgreSQL	Angular	Python
Next JS	Supabase Auth	Javascript/Typescript		

Experience

Software Engineer (Freelance)	december 2025 – Present
-------------------------------	-------------------------

Achievements

- Led the end-to-end development of a public delivery platform as the sole software engineer, taking ownership of all technical decisions and software development.
- Defined a lean, scalable MVP architecture to validate the client's business model and support future product growth.
- Delivered the platform's front-end and established the technical foundation for the backend infrastructure.

Context

Freelance project developed for an independent startup building a public delivery platform. The application is currently being developed as a **Minimum Viable Product (MVP)** with the primary objective of validating the client's business idea before investing in a more robust solution.

Technologies

React.js • Node.js • PostgreSQL • Redis • TypeORM • Supabase Auth • AWS Cloud • WebSockets • RESTful APIs • OneSignal • JavaScript

Activities

- Developed the complete front-end using React.js, implementing reusable components, responsive interfaces, client-side routing, API integration, form validation, and efficient state management.
- Designed and implemented a PostgreSQL relational database with TypeORM, modeling entities, relationships, migrations, and optimized queries while ensuring data integrity and schema consistency.
- Developed RESTful APIs with Node.js to handle authentication, business logic, user management, orders, payments, and communication across application layers.
- Implemented Redis as an in-memory caching layer to improve API performance, optimize session management, and reduce database workload.
- Integrated Supabase Auth with Sign in with Apple to provide secure authentication, JWT-based authorization, session management, and role-based access control.
- Implemented WebSockets and OneSignal to enable real-time order updates, future delivery tracking, and push notifications.
- Currently implementing the AWS Cloud infrastructure to prepare the application for production, focusing on scalable compute resources, networking, storage, monitoring, security, and deployment workflows.
- The front-end is substantially complete, while the backend, database infrastructure, authentication, caching, real-time communication, and cloud infrastructure remain under active development as part of the MVP.

Employee Task Management System

october •2025

Overview

Developed a full-stack web application designed to centralize employee and task management through a secure, scalable, and user-friendly platform. The system enables organizations to efficiently organize, assign, monitor, and manage work activities while providing real-time operational insights through a dynamic dashboard.

Technologies

PHP • MySQL • HTML5 • CSS3 • JavaScript • jQuery • AJAX • Bootstrap

Activities

- Built a secure authentication and authorization system with user login, session management, credential validation, and role-based access for administrators and employees.
- Designed and implemented a normalized MySQL relational database to manage users, profiles, tasks, deadlines, statuses, and application data while ensuring data integrity and optimized query performance.
- Developed complete CRUD operations, administrative features, and user profile management for secure resource and account administration.
- Built a dynamic dashboard displaying real-time operational metrics, including total users, tasks, overdue tasks, completed tasks, tasks without deadlines, and task status distribution.
- Implemented business rules to automatically classify tasks based on deadlines and completion status, ensuring consistent reporting.

- Integrated AJAX and jQuery to perform asynchronous requests, improving application responsiveness and reducing full-page reloads.
- Developed responsive interfaces using HTML5, CSS3, Bootstrap, JavaScript, and jQuery, following a layered architecture to improve maintainability and scalability.

Real-Time Chat Application

september • 2025

Overview

Developed a real-time web chat application focused on low-latency communication between multiple users. The project was designed to demonstrate bidirectional communication using WebSockets, enabling instant message delivery without requiring HTTP polling or page refreshes.

Technologies

Node.js • WebSockets • HTML5 • CSS3 • JavaScript

Activities

- Developed the backend using Node.js to manage WebSocket connections, client sessions, message broadcasting, and connection lifecycle events.
- Implemented real-time communication through WebSockets, enabling low-latency message synchronization across multiple connected users.
- Developed a lightweight username-based authentication system, allowing users to join chat sessions without account registration.
- Built responsive user interfaces using HTML5, CSS3, and JavaScript, featuring automatic message scrolling and an intuitive user experience.
- Designed the application to support unlimited real-time messaging during active sessions while maintaining performance and responsiveness.

Education

University Paulista Unip

bachelor degree • 2019-2022

Computer Science

- Mastered algorithmic thinking and problem-solving techniques, effectively applying these skills to complex programming challenges.
- Cultivated a solid foundation in software engineering methodologies, consistently delivering robust and maintainable code adhering to industry standards.
- Acquired proficiency in an array of programming languages and technologies. Including C, Python, SQL, JavaScript, CSS and HTML.
- Collaborated on interdisciplinary teams, contributing to full stack development projects that incorporated both client-side and server-side components.

Languages

Portuguese – Native

English – Advanced

Spanish - Basic