

Hector Saucedo Soledad

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EDUCATION

New Jersey Institute of Technology

Newark, NJ

Bachelor of Science

Expected May 2025

Major in Computer Science

WORK EXPERIENCE

Airweb Digital

Remote

Software Engineer Intern

Nov 2023 – Present

- Developing a mobile application using React Native, leveraging cross-platform capabilities to ensure a consistent user experience.
- Integrating Google APIs to provide location-based services, including mapping and geolocation features.
- Engaging with my supervisor regularly to discuss optimizing user retention and ensuring timely delivery of milestones.

New Jersey Institute of Technology

Newark, NJ

Media and Technology Support Technician

Sep 2023 – Present

- Diagnosing and resolving connectivity problems between Windows machines and projectors, HDCP handshake issues, audiovisual equipment malfunctions within a classroom technology setting.
- Deliver exceptional customer service by assisting lab users, addressing inquiries, and ensuring adherence to lab rules and policies.

Essex County College

Newark, NJ

Tutor

May 2023 – Present

- Conducting personalized one-on-one tutoring sessions with tailored lesson plans, addressing individual student needs and learning goals. Achieved measurable results by significantly increasing students' test scores by an average of 35%.

New Jersey Institute of Technology

Newark, NJ

Library Circulation Attendant

Oct 2021 – Present

- Supporting library operations utilizing MS Office (Word, Excel, Access) and Google Suite (Docs, Sheet, Slides) showcasing proficiency in essential software tools. Quickly adapting to new tasks and priorities to meet library needs.

UNIVERSITY PROJECTS

Movie Lookup

Nov 2023

- Designed an application that extracts the latest movies by utilizing an API that displays matches to the user's query.
- Utilized the React Framework to develop the application and make the user experience clean and smooth.

Food Tracker Application

Aug 2023

- Utilized PHP for server-side scripting to interact with a relational database. Designed database tables to store user profiles, recipes, and API data. Implemented SQL queries to insert, update, and retrieve nutrition data from the database. Developed PHP functions to handle user registration, login, and profile management. Securely hashed and validated user passwords for enhanced security.
- Designed a responsive and visually appealing user interface using HTML, CSS, and Bootstrap. Provide intuitive user interactions for adding, editing, and deleting recipes. Displayed food API data dynamically to users with JavaScript. Enabled users to customize their view of data through filtering and sorting options.

Capture the Square Online Game

May 2023

- HTML was used for structuring the game canvas and displaying text elements. CSS was utilized for styling the canvas and text to enhance the visual presentation of the game. JavaScript event listeners were used to detect user keyboard input (keydown and keyup events) for controlling the movement of the red square within the canvas.
- The game logic, including square movement, collision detection with the target, yellow square, and obstacles, as well as score tracking and countdown management, was implemented in JavaScript functions. The game starts with a menu screen, which transitions to the gameplay when the user clicks. When the game ends (due to a timer running out or a collision), it displays the final score on the canvas.

Subjective Assessment of Commercially and Common Input and Display Modalities In a Driving Simulator

May 2023

- Utilized R for data analysis, generating datasets, applying statistical methods, and producing reader-friendly visualizations. Skillfully reported research results, adhering to journal conventions, to effectively communicate findings and insights.
- Results indicated that when a realistic controlling scheme is paired with an immersive display type, symptoms associated with simulator sickness tend to decrease.

Key Skills

Languages : C, Bash, Python, Java, JavaScript, HTML, PHP, Git, SQL

Technical : React.js, API Usage, Web Scrapping, Troubleshooting, Windows, UNIX, Databases