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Contact, Technologies and

NodeJ

React

React+Vit

MUI

Tailwind

Express

Visual

MongoDB

Visual Studio

MXAML

Angular

Astro

Next

Skills and Competence

- Commitment to projects
- Teamwork
- Prototype development
- Code debugging
- Adaptability
- Analytical skills

Roilan Lauzardo Sotolongo

Software and Web Application Development

Graduated in Computer Engineering from the Agrarian University of Havana "Fructuoso Rodríguez Pérez" in July 2015.

Professional Profile

Programmer with knowledge in HTML5, CSS3, JavaScript, TypeScript, Java, C#, SQL, NoSQL, Node.js, React, React+Vite, Visual Studio Code, Visual Studio. I specialize in software and web application development. With a problem-solving and efficiency-oriented approach, I have proven to be a developer capable of working in multidisciplinary teams and delivering high-quality results. I learned to program at the Agrarian University of Havana and have continued to improve my skills through personal and class projects. I am willing to collaborate on projects that allow me to utilize and enhance my skills as a programmer.

Work Experience

Project: MirelisNailRol

Technologies Used: MongoDB, Node.js, Express, React, Material Design, JWT, Axios, Multer, Mongoose, CORS.

Project Description: I successfully developed and launched an interactive digital catalog for MirelisNail, a business specializing in manicure services. This multifaceted project included the creation of a robust server and client architecture, ensuring a smooth user experience and efficient content management.

Responsibilities and Achievements:

► **Client-Side Web Development:** I implemented a client-oriented web platform to promote the manicure services offered by MirelisNail. The web includes a gallery of works, detailed information about the team and their certifications, and a system to view available schedules. I ensured the interface was intuitive and accessible, enhancing visibility and reach for the business.

► **Administration Web Development:** I designed and developed an administration web using Material Design to allow the business owner to manage the catalog content independently. I created custom visual components for React, such as tables, input fields, avatars, and file selectors, which improved administrative experience and operational efficiency.

► **API Integration:** I developed a RESTful API using Node.js and Express, serving as a bridge between the MongoDB database and client and administration interfaces. I implemented the Multer library to handle and resize images, improving media management on the platform.

►**Database Management:** I used Mongoose to interact with MongoDB Atlas, ensuring efficient data storage and quick retrieval for the end-user experience.
►**Security:** I implemented token-based JWT authentication to protect the administration web, guaranteeing the security and integrity of site operations.
►**Connectivity and Deployment:** I ensured a secure and reliable connection between the API and user interfaces through the use of CORS. I deployed the administration web and catalog using CloudFlare, and the API through Render, demonstrating competence in managing cloud hosting services.

Project: ChatReact

Technologies Used: MongoDB, Node.js, Express, WebSocket, Socket.io, JWT, Material Design, React, CSS Frameworks.

Project Description: I successfully developed a real-time chat web application for ChatReact, allowing multiple users to interact and communicate in real time. This project involved creating a server and client architecture, ensuring a smooth user experience and efficient management of credentials and data.

Responsibilities and Achievements:

►**Web Development:** I designed and developed a chat web application that offers users the functionality to communicate in real time. I implemented data security using JWT, with an access token and a refresh token to ensure privacy and integrity of site operations.
►**API Integration:** I used Node.js and Express as the foundation for the project endpoints, allowing for real-time bidirectional communication between the client and server. I implemented WebSocket using socket.io in the API and socket.io-client in the frontend, resulting in fast and efficient communication between users.
►**Database Management:** I used MongoDB as the database server, which allowed for effective storage of user credentials and management of chat information.
►**Progressive Web App Functionality:** I ensured that the web application functioned as a Progressive Web App, enhancing user experience and accessibility of the application.
►**Frontend Design and Development:** I used Material Design as the basis for the interface design, creating custom components in React such as a complete chat interface, custom inputs, and additional components.

Project: Medical Form

Technologies Used: Node.js, React Vite, JWT, react-router-dom, Context API, Material-UI, Formik, js-cookie, Yup.

Project Description: I developed the front-end in React for a web application designed for recording the medical history of different patients. This platform allows healthcare professionals to efficiently manage the medical information of their patients.

Responsibilities and Achievements:
►**Client-Side Web Development:** I implemented the client web platform to register the medical history of various patients. I used Material-UI to enhance the visual appearance, combining it with Formik and Yup to effectively validate forms. Additionally, I generated reports of the medical histories, allowing for the creation, editing, and deletion of records.

►**API Integration:** I used Axios for API integration, facilitating the retrieval of responses from various endpoints and ensuring smooth communication between the front-end and back-end.

►**Security:** I implemented js-cookie to manage the cookies that store access tokens (AT) and refresh tokens (RF), ensuring the security of the application through the implementation of JWT on the server.

Project: Practice Projects
Technologies Used: Node.js, React, JWT, react-router-dom, Context, Reducers, Redux, Material-UI, Google APIs.

Project Description: I developed example projects that demonstrate a variety of skills and knowledge such as authentication, routing, context, reducers, redux, memoization, and API creation. These projects involved creating a robust server and client architecture, ensuring a smooth user experience and efficient management of complex data and states.

Experience Gained:

►**Authentication:** I implemented authentication with JWT, allowing users to log in and access specific features based on their roles and permissions.

►**Routing:** I used react-router-dom to establish routes and navigation in the application, enhancing navigability and accessibility.

►**Context:** I created a global context using Context, enabling components to share common information without the need for excessive prop drilling.

Experience Gained:

►**Reducers**: I used reducers to establish complex state variables and logic within components, improving state management and the scalability of the application.
►**Redux:** I implemented Redux to create a global state for complex logic in scalable projects, allowing components to access shared data and states.
►**Memoization:** I utilized memoization to cache components and functions, reducing the number of re-renders and enhancing the efficiency of the application.
►**Visual Components:** I used Material-UI as a visual component library, enabling the creation of an attractive and accessible interface for users.
APIs: Creé una API en Node.js con Express para enviar archivos a Google Drive utilizando la librería de googleapis.

Project: Ichimoku Kumo Multiframe

Technologies Used: MQL4, MetaTrader 4, MetaEditor, Ichimoku Kinko Hyo technical indicator.

Project Description: I developed a technical indicator in MQL4 based on Ichimoku, allowing the visualization of the Kumo from the two previous periods in the current period. The indicator automatically adjusts the values of the higher periods to the current one, requiring only the input of the standard parameters of the main Ichimoku (9, 26, 52) and calculates the other two clouds or Kumo based on those parameters.

Responsibilities: I designed and developed the Ichimoku_multiframe indicator, integrating the calculation algorithm of Ichimoku to obtain the values of the two higher periods. I implemented the logic to automatically adjust the values of the higher periods to the current one, ensuring the accuracy and efficiency of the indicator. I conducted thorough testing to guarantee the correctness and stability of the indicator under different market conditions.

Achievements: The Ichimoku_multiframe indicator is a useful tool for traders and analysts, allowing them to visualize market trends and dynamics in a more detailed and precise manner. The indicator is characterized by its ability to adapt to different time frames and market conditions, making it especially useful for technical analysis and trend-based trading strategies.

Title: Ichimoku Panel

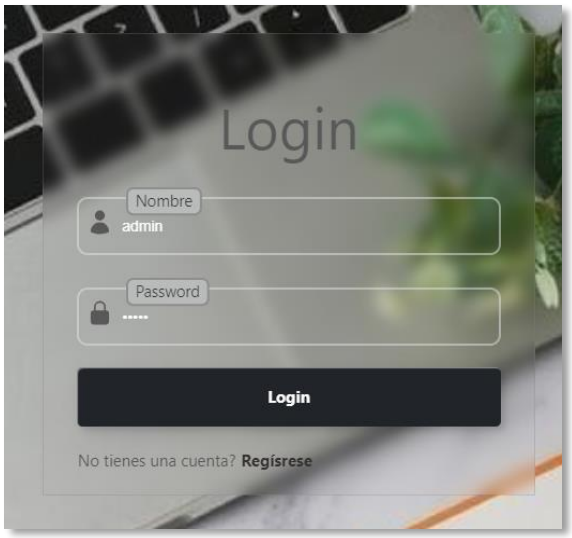
Technologies Used: MQL4, MetaTrader 4, MetaEditor, Ichimoku Kinko Hyo technical indicator.

Project Description: The Ichimoku Panel indicator is a program developed in MQL4 that displays the behavior of different signals from the Ichimoku system across all timeframes. This indicator is a valuable tool for traders seeking to gain an overview of market trends and identify potential trading opportunities.

Responsibilities:
Develop an indicator that shows the behavior of Ichimoku signals across different timeframes.
Implement the key lines of the Ichimoku system, including Tenkan Sen, Kijun Sen, Senkou Span A, Senkou Span B, and Chikou Span.
Add functionalities to display the crossover of the Tenkan Sen and Kijun Sen moving averages, the position of the moving averages relative to the Kumo, the angular behavior of the Kijun Sen moving average, and the position of the Chikou Span relative to the price.
Incorporate colors to indicate bullish, bearish, and neutral trends.

Achievements:
This indicator is a valuable tool for any trader looking to gain an overview of market trends and detect potential trading opportunities. Its ability to display the behavior of signals across different timeframes makes it especially useful for traders seeking a broader perspective on market trends.

Galería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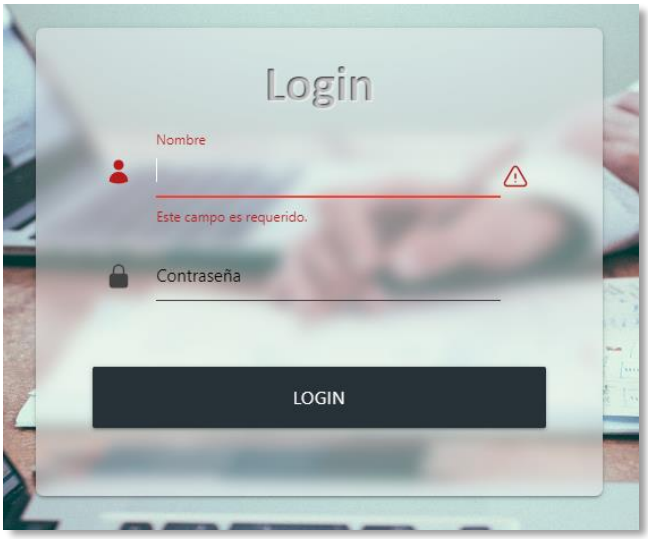
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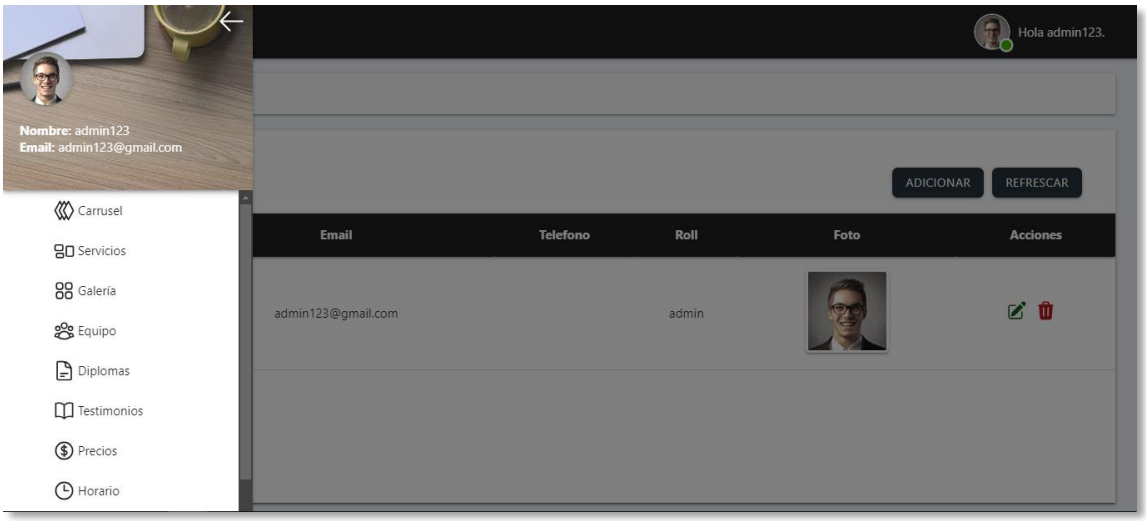
LOGIN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