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CAREER OBJECTIVE

Candidate for an electronic engineering degree, a quality-focused and results-oriented professional looking for a position as a web developer where I can apply the knowledge I gained during the projects I have been working on and my university education to improve user experience.

EDUCATION

Bachelor of Electronics Engineering

Jan 2018 - 2023(expected)

Universidad Santo Tomás

Main courses: Signal and Systems, Programming, Communications

PROJECT

Temperature monitoring system from a web server created using .Net, SQL, JavaScript, Bootstrap, HTML and CSS

February 2022

- A login system was created that connects to a database which stores the login credentials of the users
- A monitoring system was created which controls a room's minimum and maximum temperature levels. Also, it keeps a history of all temperatures and presents them in a graph.

REST API with authentication, database and deployment on a real server, using Fast API

Dec 2021

- A NoSQL database was implemented using MongoDB for user administration
- The OAuth 2.0 protocol was used for user authorization and registration.

Navigation system in autonomous vehicles based on predictive control by models in a scenario with obstacles

Current

Bachelor's Thesis

- Design a control strategy based on Model Predictive Control (MPC) for the navigation of a scale autonomous vehicle in an environment with obstacles.
- Improved the algorithm's accuracy in predicting selected trajectories by optimizing the cost function and adjusting the input variables of the system.

SKILLS

Backend

.NET, Fast API, Node.js, SQL, JavaScript, PHP, Python , C#

Frontend

HTML, CSS, React, Bootstrap

Communication

Spanish (Mother tongue), English (Conversational B2), German (Elementary A2)

Other

Git, GitHub, Microsoft Office