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EDUCATION

USCO ~ Universidad Surcolombiana   **Neiva, Huila/CO**
Software Engineering

EXPERIENCE

ALCALDIA DE NEIVA (SECRETARIA DE DEPORTE)   Neiva, Huila
Project Manager and Frontend Developer   Nov 2024 – Today

- I led the development team applying agile methodologies (Scrum), ensuring the delivery of key modules on time and in the correct manner through sprints organized in Jira.
- I defined the functional and non-functional requirements through meetings with stakeholders, designing the structure of the Administrative Dashboard with wireframes and navigation flows.
- I coordinated the integration between frontend and backend through RESTful APIs, optimizing performance and ensuring system scalability with Prisma ORM and PostgreSQL.
- I implemented an intuitive user interface and a modern and responsive Administrative Dashboard with Next.js and TailwindCSS, improving accessibility and user experience.
- I designed and integrated a dynamic search and filtering system, optimizing the management of scenarios and users in the UI.

2021 - In progress

PROJECTS

UNIVERSITARIOS NEIVA, HUILA/COLOMBIA

o C/R Manager

  - Desktop-focused platform where customers can evaluate software quality using various models, generate risk matrices, and download reports in PDF format. Includes login and dynamic functionalities for evaluations.

o Intelligent Diagnostic System for Brown Spot Management in Rice Crops

  - Artificial vision project focused on the detection and classification of the "brown spot" disease in rice crops, using convolutional neural networks. The system combines image processing and deep learning techniques with libraries, achieving 99.45% detection accuracy with YOLOv11 and consistent results in the other models. This project has a significant impact on the agricultural sector, providing an effective tool to monitor and manage the progression of the disease, optimizing resources and improving the productivity of rice crops.

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Software Engineering   2021 - In progress

SKILLS, ACTIVIDADES E INTERESSES

Languages: Native Spanish and English B2
Skills: HTML, CSS, Tailwind CSS, React, Next.js, MongoDB, Python
Activities: Software engineering student, Project development.
Interests: Innovation, Continuous learning
Portfolio: https://manuel-navarro.netlify.app