JUAN MANUEL PAREDES LÓPEZ

Mechatronics Engineer | Process Automation | Data Analysis | Full Stack Development
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PROFESSIONAL PROFILE

Mechatronics Engineer with experience in designing and implementing technological solutions for process optimization and data-driven decision-making.

I have led the development of digital tools in real environments, such as the creation of a coffee maquila management system that digitized manual processes through a full stack web application, integrating client management, production, and operational calculations.

I hold intensive training in Full Stack Development, with strong command of modern frontend and backend technologies. Skilled in process automation with Python, SQL, RPA, and Microsoft Power Automate, as well as API validation using Postman. My profile combines analytical vision, process-oriented focus, and technical expertise to transform data and business logic into functional and scalable solutions.

WORK EXPERIENCE

Café Alcázar
Operations and Sales Coordinator
November 2023 – Present

- Developed a full stack application for coffee maquila management, digitizing manual processes and reducing errors in operational calculations.
- Automated reports and workflows using Python and RPA tools (Microsoft Power Automate).
- Conducted analysis of operational and commercial indicators to enhance planning and decision-making.
- Implemented digital solutions to coordinate operations and sales more efficiently.

Grupo Bancolombia
University Intern
January 2023 – July 2023

- Developed automated tools in Python and SQL, reducing processing times by 40%.
- Built dashboards in Excel and Power BI to support strategic decision-making.
- Optimized operational processes through automation and data structuring.
- Provided support in systems integration and data validation to ensure report accuracy.

FULL STACK DEVELOPMENT EXPERIENCE

Projects developed as part of my Full Stack Development training:

- **Contact List**: React application with Context API for contact management, connected to an external API.
- **Star Wars Platform**: React and Context API project consuming the Star Wars API, with favorites functionality and entity details.
- **To-Do List with React and Fetch**: Application to manage tasks through an external API, with real-time CRUD functions.
- **SkillMatch (Final Project)**: Web platform built with React, Python, and Flask that connects freelancers with companies, including profile management, job offers, proposals, and an admin panel with role-based authentication.

Technologies used:
Frontend: HTML5, CSS3, JavaScript, React, Bootstrap, Context API
Backend: Python, Flask
Testing and APIs: Postman
Version Control: Git and GitHub

EDUCATION

- Mechatronics Engineer – Universidad EIA, Envigado (2024)
- Full Stack Development – 4Geeks Academy (5 months, completed)
- Fundamentals of Python and Statistics for Artificial Intelligence – Universidad Icesi (18 hours)

TOOLS AND KNOWLEDGE

- Full Stack Development: HTML5, CSS3, JavaScript, React, Bootstrap, Python, Flask
- Process Automation: Python, SQL, RPA, Microsoft Power Automate
- Postman: API validation and testing
- Advanced Excel: Pivot tables, macros, and report automation
- Power BI: Dashboard creation and data visualization
- Version Control: Git and GitHub

SKILLS

- Analytical thinking and problem-solving
- Development of automation tools for operational processes
- Implementation of digital solutions for process optimization
- Teamwork and effective communication across different areas
- Adaptability and continuous learning in dynamic environments