

Juan Pablo Alvarez Ovalle

57 3044154748

juanpabloalvarezovalle@gmail.com

www.linkedin.com/in/juanpabloalvarezovalle-backend-developer

Professional Summary

Electronics Engineer with a proficiency at a B2 level in English, experienced in software development, ranging from Frontend UI crafting and implementation to Backend development of business logic. Having strong foundations in programming languages like JavaScript, Typescript and Python, as well as Backend tools and frameworks like NodeJS, ExpressJS, REST APIs and ORMs. Expertise in PostgreSQL and familiarity with non-relational databases, particularly MongoDB.

Recognized for his innovative approach in tackling complex challenges with a flair for creativity. With unwavering passion for continuous improvement drives a commitment to staying at the forefront of emerging technologies and tools in Web development and Cloud Services.

Work Experience

Consultant – Software developer, Web and LabVIEW

Feb 2018 – Present

Responsibilities

- Develop software solutions with a comprehensive approach that spans from understanding the client's needs to the creation of architectural solutions and functional designs.
- Develop software applications from scratch or modifying existing ones in various programming languages such as Javascript, Typescript, NodeJS, and LabVIEW, ensuring the writing of efficient and clean code. This includes creating user interfaces using React, Html, CSS, and graphical languages, complementing with Backend applications and integration with PostgreSQL and MongoDB databases.
- Integrate protocols such as REST APIs and MQTT to communicate with different applications, and third-party libraries in order to interact with hardware (signal acquisition, data processing, and process automation).
- Manage the ongoing maintenance of projects and Git repositories, addressing issues and adding new functionalities.

Key Achievements

- Proposed and implemented additional functions beyond the initial requirements, resulting in recognition from the client.
- Elevated project functionality by harnessing communication libraries for devices, implementing protocols like MQTT, WebSockets, REST APIs, and CAN, resulting in substantial process optimizations.
- Provided exceptional customer service and technical acumen by diagnosing and swiftly resolving reported technical issues within a 1-day timeframe. This proactive approach not only garnered recognition from clients but also cultivated trust and satisfaction, contributing to a positive impact on customer experience.

Production Engineer – Kuspyde Ingeniería S.A.S.

Jun 2014 – Feb 2018

Responsibilities

- Lead from a technical perspective the acquisition and commissioning of instruments and actuators for hardware and software integration projects. Responsible for effectively selecting and managing the implementation of these devices within the project requirements.
- Design custom electronic circuits to integrate into manufactured electromechanical products and develop the required software for both machine-to-machine interaction and user interaction.

- attend to customer needs throughout the requirements gathering stages, orchestrate the execution and on-site installation of industrial instruments, and deliver comprehensive post-sales service and support.

Key Achievements

- Assumed a pivotal leadership role in the company's software development, single-handedly managing the department during a critical period and ensuring the timely delivery of projects.
- Reduced manufacturing costs of electronic circuits by negotiating production costs and quantities with domestic producers, and modifying the circuit designs to perform in-house assembly at the company.
- Streamlined the employee metrics evaluation process by implementing the company's work log in Google Sheets. Leveraging App Scripts, I automated the generation of monthly documentation and project-specific hour summaries. This initiative resulted in a 100% reduction in hours dedicated to this management task.

Education

Specialist on Electronics Instrumentation

Santo Tomás University
Mar 2012 – Dec 2013

Electronics Engineer

Santo Tomás University
Jul 2006 – Mar 2012

Skills

- JavaScript
- TypeScript
- NodeJS
- ExpressJS
- SQL PostgreSQL
- MongoDB
- ORM y ODM
- HTML y CSS
- Git y Github
- Python
- LabVIEW

Languages

- Spanish
- English B2