

Victor Dallagnol Bento | Computer Engineer

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About me

I am a Computer Engineer graduated from UFSM, with solid experience in developing digital solutions for Industry 4.0. I specialize in designing scalable architectures, integrating complex systems, and leading projects focused on automation, traceability, and operational efficiency. I work across the entire development lifecycle – from requirements gathering with stakeholders to delivery and optimization of solutions in production environments. I am driven by technical and collaborative challenges, always seeking to apply my experience and creativity to solve problems in practical and innovative ways, delivering real value to teams and businesses.

Skills

- C | C# | .NET | .NET Framework | Entity Framework | Entity Framework Code | Logs | AutoMapper | xUnit
- JavaScript | TypeScript | Node.js | Express.js | JEST | React.js | Redux | React Query | Vite | Vitest | Cypress | Playwright | Material UI | Chakra UI | Bootstrap | Python | C | bash
- SQL | NoSQL | MySQL | SQL Server | MongoDB | InfluxDB
- Docker | Git | REST APIs | WebSockets | CI/CD | Node-RED | Grafana | Microservices
- Microsoft Azure, Google Cloud Platform
- English (Intermediate) | Portuguese (Native) | Spanish (Basic)

Experience

Digital Solutions and Infrastructure Specialist **Tetra Pak** *Remote, Brazil* **03/2022 – Present**

- Achieved a 50% reduction in data logging and reporting time by automating over 15,000 records, ensuring greater traceability, real-time visibility, and process compliance.
- Developed robust .NET (C#) APIs integrated with Node-RED, using JWT and Azure KeyVault for secure authentication.
- Delivered paperless shop floor solutions with intuitive interfaces and interactive dashboards.
- Built real-time quality control systems using Grafana, InfluxDB, and Node-RED, enabling data-driven decisions.
- Managed CI/CD pipelines with Azure DevOps, applying GitFlow and semantic versioning for controlled, continuous delivery.
- Worked closely with clients, led architectural decisions, gathered requirements, and managed agile projects (SCRUM) focused on value delivery.

Development Analyst **PPI Multitask (WEG)** *Remote, Brazil* **01/2021 – 03/2022**

- Developed Industry 4.0 solutions using JavaScript (ES6), HTML5, CSS3, SQL, and Firebase across diverse industrial contexts.
- Contributed to the BIQ – Built In Quality project, emphasizing failure prevention and improving quality control.
- Implemented custom IoT solutions with WEGnology, including device setup, data collection via Edge Computing, and Docker-based optimization.
- Built scalable APIs to support large-volume IoT infrastructure communication.
- Led team planning and delivery schedules, ensuring timely, high-quality results using agile methodologies.

Software Development Intern **WEG** *Remote, Brazil* **03/2020 – 12/2020**

- Developed a web-based monitoring and analytics solution for a low-code platform using JavaScript, HTML, and CSS.
- Created REST APIs and serverless functions (FaaS) in Google Cloud for usage metrics and automated billing.
- Refactored legacy Java and Node.js codebases, adding unit tests with MochaJS for improved stability.
- Migrated projects to GitLab and implemented CI/CD pipelines to streamline delivery.
- Collaborated in agile teams focused on performance, scalability, and system availability.

Research Fellow **INPE** *Remote, Brazil* **08/2018 – 03/2020**

- Conducted ionospheric error correction research in RTKLib, applying the Klobuchar model to enhance GNSS positioning accuracy.
- Developed tools in C and Python to simulate and compare real-world vs. simulated data using INPE and IGS references.
- Automated testing and statistical analysis workflows, accelerating development and validation processes.

Education

Computer Engineering **Federal University of Santa Maria** *Santa Maria, Brazil* **06/2015 – 01/2021**

Certifications

- **JavaScript Algorithms and Data Structures – freeCodeCamp**: Explored core and advanced JavaScript concepts such as array manipulation, search and sorting algorithms. A 300-hour hands-on course focused on solving problems and building efficient, scalable applications. **(09/2023)**
- **Foundational C# with Microsoft – freeCodeCamp**: Covers the fundamentals of the C# language, object-oriented programming, exception handling, debugging, and an introduction to web development using ASP.NET. **(05/2024)**
- **Back End Development and APIs – freeCodeCamp**: Focuses on server-side development using Node.js, creation of RESTful APIs with Express, and data manipulation in NoSQL databases with MongoDB. **(05/2024)**
- **Full Stack Open – University of Helsinki**: An intensive course focused on modern web development with JavaScript. Covered foundational concepts in Node and APIs, React, state management with Redux, client-server communication via REST APIs, user authentication, automated testing, and DevOps practices. **(04/2025)**