

COMPUTER ENGINEER

VICTOR DALLAGNOL BENTO

I am a graduate in Computer Engineering from UFSM, with solid experience in developing solutions for Industry 4.0. I have participated in innovative projects, integrating complex systems and creating robust architectures. Throughout my career, I have actively participated in digital projects in various industrial sectors, seeking challenges that allow me to grow professionally and contribute with creative and effective solutions.

CONTACT

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SKILLS

- .NET
- C#
- JavaScript
- NodeJS
- ReactJS
- Python
- C
- Azure
- SQL
- NoSQL

LANGUAGES

- Portuguese: Native
- English: Intermediate
- Spanish: Basic

EDUCATION

Bachelor's Degree in Computer Engineering

Federal University of Santa Maria - UFSM • 2015-2021

EXPERIENCES

Tetra Pak

Digital Solutions and Infrastructure Specialist • Mar 2022–current

I have experience in developing APIs using .NET (C#), integrating with Node-RED, and implementing JWT with Microsoft Azure KeyVault to ensure data security and reliability. Additionally, I am responsible for developing applications that digitize shop floor processes using .NET and SQL databases (MySQL and SQL Server). My work has contributed to the complete elimination of paper in industrial environments, providing intuitive and efficient screens and reports.

I have solid experience in utilizing Microsoft Azure services for hosting, security, and data management in the cloud. Furthermore, I highlight my role in developing an innovative real-time quality control solution using Grafana, InfluxDB, and Node-RED.

Moreover, I implemented Azure Pipelines for version control of digital solutions, following semantic versioning and the GitFlow strategy. I maintained direct contact with clients to understand requirements and provide support, as well as leading projects and developing architectures for digital solutions, following the agile SCRUM methodology to ensure efficient and high-quality deliveries.

PPI Multitask - WEG Group

Development Analyst • Jan 2021 – Mar 2022

I have experience developing Industry 4.0 solutions using SQL (MySQL), NoSQL (Firebase), HTML 5, CSS 3, and JavaScript (ECMAScript 6) in various industrial contexts. I would like to highlight my work on the BIQ - Built In Quality project, which enables organizations to transition from defect detection and containment to effective prevention.

I utilized the specialized IoT platform WEGnology to implement customized solutions, including configuring IoT components and utilizing Edge Compute to collect and send data to the cloud. I also have experience in edge computing and Docker containers for performance optimization. Additionally, I developed JavaScript APIs for efficient communication in IoT infrastructures.

I have been responsible for project and team management, ensuring high-quality deliveries within established timelines.

WEG

Intern • Mar 2020 – Dec 2020

I developed a web solution to monitor a low-code platform using JavaScript, HTML, CSS, and the WEGnology platform. Additionally, I created REST APIs and serverless functions (FaaS) on Google Cloud to manage platform usage and billing through different metrics. I performed refactoring on Java and Node.js applications, including creating tests using MochaJS to improve performance and maintainability. I led the migration of a project to GitLab, implementing a CI/CD pipeline to automate integration and continuous delivery processes. I managed Docker containers and database restoration to ensure system availability and integrity. I worked following the agile methodology (Scrum), collaborating in cross-functional teams to achieve goals and deliverables within established deadlines.

INPE - National Institute for Space Research

Research Fellow • Aug 2018 – Mar 2020

I conducted in-depth studies and tests on the RTKLib software, focusing on ionospheric error correction using the Klobuchar method. I implemented ionospheric corrections using simulations from INPE and IGS correction in RTKLib. I developed software in C and Python to compare the accuracy of these corrections, using mean error as the main metric. My analyses contributed to improving the accuracy of corrections in RTKLib, and I developed custom tools to automate the comparison process and analyze results, speeding up the development cycle and facilitating future comparisons.

CERTIFICATIONS

Legacy JavaScript Algorithms and Data Structures

freeCodeCamp • Set 2023

Over the course of 300 hours of learning, I explored essential concepts and advanced techniques to develop efficient and scalable solutions in JavaScript. From manipulating arrays to implementing search and sorting algorithms, this course provided a solid foundation for solving complex problems and creating robust applications. I completed the course with enhanced skills in JavaScript, preparing me for challenges in software development and beyond.

Foundational C# with Microsoft

freeCodeCamp • Mai 2024

This course, developed in partnership with Microsoft, covers essential programming concepts, including C# syntax, object-oriented programming, exception handling, debugging, and working with collections and generics. Through this course, I gained proficiency in C# programming, developed strong debugging skills, and learned the fundamental principles of object-oriented design and implementation, as well as basic web development techniques with ASP.NET.

Back End Development and APIs

freeCodeCamp • Mai 2024

This course covers essential back-end development concepts, including creating and managing servers with Node.js, developing RESTful APIs with Express, and integrating and manipulating NoSQL databases with MongoDB. Through this course, I gained proficiency in back-end application development, the ability to create and consume efficient APIs, and experience in data management with MongoDB.