



FERNANDO ZANZOTI

SOFTWARE DEVELOPER

Highly motivated and results-oriented software developer with 4+ years of experience designing, developing, and deploying innovative solutions across various industries. Proven ability to leverage a diverse skillset including machine learning, web development, full-stack development, and experience with microcontrollers and microprocessors. Adept at staying current with the latest technologies and thrives in fast-paced environments.

Contact

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Education

Postgraduate degree Front-end Development

Kroton Educacional
Jul, 2022 - May, 2023

Postgraduate degree DevOps

Kroton Educacional
Oct, 2022 - Apr, 2023

Degree of bachelor Automation & Control Engineering

Universidade Federal de Uberlândia - UFU
Feb, 2012 - Jul, 2019

Expertise

Programming Languages

- Javascript, Typescript, Python, Java, C++;

Web and Mobile Development

- HTML5, CSS3, React, React Native, Next.js, Wordpress;

Back-end Development

- Node.js with Fastify, NestJS, Express for API REST, GraphQL and Sockets;

Database Systems

- SQL with PostgreSQL, OracleDB, Sybase, SQLite and NoSQL with MongoDB, Elastic Search, Redis;

Machine Learning & Deep Learning

- Dataset, training and fine-tuning with TensorFlow, Keras, scikit-learn, Darknet YOLO, Pythorch;

Embedded Systems

- ESP32, RP2040, STM32F, Arduino, Raspberry Pi, STM32;

Software Testing

- Unit, integration and end-to-end testing with Jest/Vitest and Cypress;

DevOps

- Git, CI/CD, Docker (Compose), Kubernetes, Terraform;

Experience

2023 - NOW

Bittar Neurociência

Software Developer

Built a comprehensive suite of educational technology tools including a content management system, a learning management system, and a virtual learning environment. Utilized ReactJS, React Native, and NodeJS for development. Now working on a ambitious and unique project that will revolutionize personal and corporate education/training.

2021 - NOW

Brainy Results

Software Developer

Collaborated on numerous client projects involving cutting-edge technologies across web, mobile, and desktop platforms. Optimized web applications for performance and search engine visibility. Utilized unit and end-to-end testing frameworks for quality assurance.

2020 - 2022

Arcom S/A

Software Developer

Developed and implemented a variety of automation solutions using machine learning, web development, microcontrollers, and various software development tools. Streamlined internal warehouse processes and integrated automated property valuation models.

Experience (detailed)

Bittar Neurociência

Developed a comprehensive suite of educational technology tools to empower Bittar Neuroscience's mission:

- Built a feature-rich Content Management System (CMS) using React (front-end) and Node.js (back-end) to facilitate easy upload, editing, and creation of educational content in various formats.
- Developed a highly customizable Learning Management System (LMS) using React (front-end) and Node.js (back-end) to manage administration, user roles, course delivery, tracking, reporting, and automation functionalities for educational programs.
- Created a mobile-native (React Native) and web-based (React) Virtual Learning Environment (VLE) to enhance the learning experience for students and professors. This platform provides interactive tools and resources to foster a more engaging learning environment.
- Working and developing a very ambitious and unique project that will revolutionize personal and corporate education. Details will be

Languages

Portuguese

English

○ Brainy Results

Played a key role in delivering innovative solutions for over 15 corporate clients, leveraging a wide range of technologies:

- Stayed current with the latest front-end and back-end technologies by working on diverse projects.
- Optimized web page performance, scalability, and search engine ranking (SEO) through techniques like static and server-side rendering.
- Built web applications, desktop applications, mobile-native applications, and mobile-first responsive applications to cater to various client needs.
- Employed unit testing frameworks (Jest/Vitest) and end-to-end testing frameworks (Cypress) to ensure code quality and application functionality.

○ Arcom S/A

Designed and implemented intelligent automation solutions for warehouse processes. This included:

- Integrating machine learning algorithms (Python) and deep learning frameworks (Tensorflow Keras, Darknet YOLOv4) for automated property valuation based on cycle counting data.
- Developing web applications to manage and interact with warehouse automation systems.
- Designing and building closed-loop control systems using microcontrollers (ESP8266, ESP32, Arduino) and microprocessors (Raspberry Pi, STM32) to control sensors and actuators for physical automation tasks.
- Developed front-end/back-end applications (Web and Mobile with React and React Native libraries) to support warehouse operations and customer-facing B2B functionalities.
- Implemented API integrations with 3rd-party software to ensure seamless data flow and system interoperability.
- Improved efficiency by testing software for bugs and performance bottlenecks, fixing identified issues, and documenting processes.