Juan D. Rodriguez

Front-End Developer

jd.rodriguez.or@gmail.com
(616) 278-8916
Grand Rapids, MI

Self-starter software developer with a background in mechatronics engineering, business operations and product design, bringing over 7 years of experience. Dedicated to crafting engaging and accessible digital experiences.

LinkedIn.com/JuanDavid-Rodriguez | github.com/JD-R0driguez | jd-r0driguez.portfolio

Selected Projects

Personal Website V1.0   live-code | repo   React   Animate.css   CSS3   HTML5

- The first iteration of my personal portfolio to showcase projects and skills. Crafted with React, it integrates custom and reusable text animation components using props. with and Animate.css.
- Designed with a clean and minimalist aesthetic, incorporating captivating colors and responsive layouts that adapt to all screen sizes. Additionally, included accessibility features to improve user experience.

Pixel Drawing Application   live-code | repo   JavaScript   Bootstrap CSS3   HTML5

- Engineered an interactive drawing app as part of The Odin Project coursework, featuring several functionalities including customizable pixel sizes, color selection, and multiple drawing modes. Built a dynamic grid generation logic to instantly adjust and display user preferences.
- Employed event-driven programming techniques and leveraged Bootstrap for streamlined UI components, providing seamless user interactions with all available features while enriching the application's functionality and user experience.

Age Calculator Application   live-code | repo   JavaScript   CSS3   HTML5

- Implemented an interactive Age Calculator app in JavaScript as part of Front-End Mentor challenges, integrating date objects and event listeners to ensure precise age computation.
- Incorporated robust error handling logic and utilized defensive programming techniques to anticipate and handle unexpected scenarios, used color prompts and contextual messages to guide users in entering data by notifying them when an incorrect or non-existent date is provided. Enhanced user experience and minimized the risk of app failure.

Work

Career Coach
Sparta Area Schools Adult Education, Grand Rapids, MI   09/2019 – Present

- Directed English as a Second Language classes and Career Coaching sessions for a diverse cohort of 100+ students, while deploying individualized strategies to mitigate dropouts, resulting in a 65% increase in retention rates.
- Managed cross-cultural communication with students from diverse backgrounds and 10+ countries, empowering them with language skills needed to obtain employment, further education, and engage in the community.

Business Architect
BlueWood, Grand Rapids, MI   09/2017 – 12/2022

- Managed project lifecycles, from conceptualization to final construction, translating client concepts into compelling visualizations with Blender 3D. Streamlined product execution, resulting in 70% more sales.
- Used Google Trends and Google Analytics for market analysis, yielding insights that informed strategic business decisions and resulted in a 20% increase in website traffic within one month.
- Developed targeted marketing campaigns on Facebook and Instagram, generating a 1500% increase in brand visibility and customer engagement, demonstrating proficiency in data-driven marketing strategies.

Software Engineer
Structures Laboratory, Bogotá, Colombia   09/2015 – 04/2017

- Designed and built seismic systems for academic research, integrating real-time data acquisition with a NI-DAQ embedded processor and a LabVIEW interface. Improved research outcomes by provided 35% more accurate data.
- Conducted extensive market research, evaluated third-party solutions against in-house development options, resulting in insights that led to a pivotal 65% reduction in academic expenditures.

Skills

Programming Languages
- JavaScript
- HTML
- CSS
- Python

Frameworks and Tools
- React
- Bootstrap
- Git
- GitHub

Concepts
- Understanding of OOP Concepts, Bootstrap
- Data Structures and Algorithms
- Software Development Cycle

Education

National University of Colombia
Bachelor of Science in Mechatronics Engineering and Automation

Self-taught

The Odin Project
Full Stack JavaScript

Interests

Yoga, swimming, climbing, historical fiction books, Catan and coffee enthusiast.