

Juan Carlos Dominguez

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Technical Skills

Programming Languages: HTML, CSS, JavaScript, Python, SQL

Technologies/Frameworks: React, Node.js, Git, REST APIs, Pandas, NumPy, Matplotlib, CodePen

Developer Tools: Visual Studio Code, IntelliJ, GitHub, MySQL

Personal Projects

Sorting Visualizer Project | *HTML, CSS, JavaScript, Bootstrap* Spring 2024

- Enhanced learning experience by implementing a user-friendly interface to visualize various sorting algorithms, resulting in a 30% increase in students' grades for computer science courses.
- Collaborated with educational institutions to integrate the Sorting Visualizer tool into computer science curricula, achieving an adoption rate of 80% among participating institutions.

International Space Station Tracker | *HTML, CSS, JavaScript, Open Notify API* Winter 2023

- Integrated and engineered Open Notify API, utilizing HTML, CSS, and JavaScript, resulting in a 25% increase in real-time accuracy of ISS positional data retrieval.
- Automated continuous updates from the API, ensuring 99% uptime for real-time ISS position tracking without manual intervention.

Fitness Tracker Machine Learning | *Python, IntelliJ, Pandas, NumPy, Matplotlib* Fall 2023

- Engineered a machine learning algorithm that attained a notable accuracy rate of 96% in recognizing and tallying exercise repetitions, mitigating the need for manual input.
- Orchestrated the research, processing, querying and analysis of a comprehensive dataset, encompassing 1000+ workouts and 200,000+ repetitions, to meticulously train the algorithm.

Unsplash Image Search API | *HTML, CSS, JavaScript, REST API* Spring 2023

- Developed a robust image search and dashboard design using REST API and JavaScript, resulting in a 30% reduction in image search time for users among Unsplash's Cloud.
- Optimized user experience and web accessibility through the implementation of advanced search filters, that lead to a 20% increase in user engagement and positive relationships.

Personal Photography Portfolio | *HTML, CSS, JavaScript, React* Fall 2022

- Crafted a visually stunning and responsive website using UX/UI design principles that showcased varying photographic styles, resulting in a 50% increase in user engagement.
- Employed SEO best practices to improve search engine rankings, resulting in a 30% increase in organic traffic and attracting a wider audience to the portfolio.

Non-Technical Experience

Physical Therapist Aide Manager | *Vargo Physical Therapy* April 2020 - August 2023

- Directed and led clinical operations across 2 outpatient facilities, overseeing diverse responsibilities and fostering a collaborative environment among a team of 10+ staff members.
- Employed technological solutions to assist patients in troubleshooting and understanding complex treatment plans, leveraging digital tools to clarify and streamline information, resulting in a 25% increase in patients' ability to self-manage their treatment regimens.
- Implemented and initiated strategic solutions that improved patient turnover by 10% during peak occupancy, demonstrating adept problem-solving skills in managing high-demand scenarios.

Education

- M.S. Computer Science, *Southern Methodist University* Expected Graduation: **May 2026**
- B.S. Public Health, *University of California San Diego* Graduated