

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, Django

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

Personal Projects

Fitness Website with AI Chatbot | *Python, HTML, CSS, JavaScript, Flask, AI Integration* **Summer 2024**

- Formulated a comprehensive website using both frontend and backend technologies, optimizing the database queries and reducing page load times by 45% for a seamless user experience.
- Streamlined an AI chatbot that provided real-time assistance for users, leading to a 35% reduction in user drop-off rates and a 25% increase in user satisfaction ratings.

Connect 4 AI | *Python, Jupyter Notebook, Minimax Algorithm, Alpha-Beta Pruning* **Spring 2024**

- Implemented an intelligent agent leveraging advanced AI techniques, including Minimax search and Monte Carlo Tree Search, that achieved a 90% win rate against human players.
- Enhanced the performance of the AI agents through strategic move ordering, significantly reducing computational overhead by 50% and improving decision-making efficiency by the AI.

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.

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

- Achieved 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.

Internship Experience

Frontend Developer Intern | *Running Logistics Inc.* **Summer 2024**

- Directed and led a team of 3 frontend developer interns in the design and implementation of an effective login form, collaborating closely with the backend team to ensure seamless integration.
- Incorporated a responsive and user-friendly login interface that improved user experience and reduced form submission errors by 30%, facilitating smoother interactions for users.
- Consolidated with the backend team to integrate keyword ranking algorithms, contributing to a 20% increase in the accuracy and relevance of resume matching, which enhanced the efficiency of the resume evaluation process.

Education

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