Juan Carlos Dominguez
Coding It Forward Fellowship

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Languages and Technologies

Front End: HTML, CSS, JavaScript
Frameworks: React, Angular, Redux
Deployment: Git, GitHub, Docker

Back End: Python, Java, C++, C, C#
Database: MongoDB, SQL, NoSQL
Tools: VSCode, Windows, Linux

Projects

Self-Driving Car Machine Learning   **Summer 2023**
- Optimized the implementation of a neural network-based control model to enable a car to autonomously navigate intricate scenarios, resulting in a 30% reduction in navigation errors.
- Integrated physics-based models into a self-driving system to enhance its understanding of the environment, reduce carbon emissions, and improve the data processing time by 15%.

Unsplash Image Search API   **Spring 2023**
- Developed a robust image search API using JavaScript ES6, resulting in a 30% reduction in image search time for users among Unsplash's Cloud, and met ADA compliance.
- Optimized user experience and web accessibility through the implementation of advanced search filters, that lead to a 20% increase in user engagement.

Pokemon API Pokedex   **Winter 2022**
- Spearheaded the development of an interactive index using modern RESTful API principles, attracting over 100,000 unique users within the first month of launch through data mining.
- Engineered advanced search and filtration functionalities, reducing user search time by 25% and achieving a 40% increase in user responsiveness and efficiency.

Personal Photography Portfolio   **Fall 2022**
- Crafted a visually stunning and responsive website using UX/UI design principles that effectively showcased a diverse range of 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.

Volunteer Experience

Morphe Labs - **Technical Risk Analyst**   **April 2022 - August 2023**
- Applied interpersonal communication skills and a systemic approach to provide code management and documentation, reducing the occurrence of major software failures by 30% and optimizing for clean and well-documented code, as well as server optimization.
- Collaborated with development teams utilizing exceptional communication skills to implement proactive security measures and ensure compliance with industry best practices, achieving a 95% adherence rate to security guidelines, accountability, and protocols.

Shopify - **Ecommerce Website Developer**   **September 2021 - March 2022**
- Utilized HTML, CSS, and JavaScript to create, test, and implement scalable software on the client and server side of the web, incorporating user-facing features and responsive front-end interface that enhanced online sales by 30% within the first three months.
- Implemented Shopify's analytics tools to perform unit and functional testing, debugging web-related issues, and perform general website maintenance to boost site visits by 20%.

Education

- M.S. Computer Science, *Southern Methodist University*   Expected Graduation: **May 2025**