Brian Mendez

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EDUCATION

University of California, San Diego   **September, 2023**
B.S.E , Electrical and Computer Engineering   *San Diego, CA*

WORK EXPERIENCE

Better Times Tutoring - Founder & Lead UX/UI Designer   **Sept. 2022 – Present**
- **Engineered** a responsive, user-friendly website adaptable to various devices, enhancing user experience and accessibility
- **Crafted** a minimalistic, professional design, emphasizing a seamless user experience which resulted in **increased** user engagement.
- **Pioneered** a responsive UI that effortlessly adapts to a multitude of devices, reinforcing the principle of **universal accessibility**.
- Optimized page structures, ensuring efficient load times, improving website performance
- **Directed** and **executed** data-driven marketing campaigns, leveraging Google Ads to amplify brand visibility by 64%.

A Tree of Knowledge Educational Services, Inc. - Tutor   **Aug. 2021– June 2022**
- Provided expert tutoring in STEM subjects, enhancing the learning experience for students

RELEVANT PROJECTS

InoiSync   https://github.com/B1mendez/Invoice-Management
- Developed a Desktop App using **Electron js** that allows Daniel Mendez Landscaping Inc. to manage and create invoices, store client data, and generate estimates.
- **Implemented** functionality to create, read, update, and delete client information with minimal effort
- **Integrated** an automated monthly invoice generator using jsPDF API for the selected client.
- Enhanced user experience by instantaneously calculating monthly revenue, unpaid clients, and total clients.
- Integrated an automated estimate generator using jsPDF API for the selected client.

Frugal - Team Leader   https://github.com/cse110-fa22-group8/cse110-fa22-group8
- **Led** a team to develop a personal finance app designed to help users manage their expenses and stay financially responsible
- **Facilitated** user account creation and login features, enabling personalized user experiences
- Implemented functionality for expense tracking to create, read, update, and delete financial data implemented by the user.
- **Integrated** a data visualization feature, allowing users to view a breakdown of their expenses via an interactive pie chart
- **Crafted** the project roadmap, breaking down the workload into three sprints, effectively managing project milestones

FEGprocessorx - Developer   https://github.com/B1mendez/FEGprocessorx
- **Developed** a microprocessor ISA to **recover** & **restore** corrupted transmission data using FEC and DED techniques.
- **Designed** the ISA to exclusively use registers, eliminating memory access, for efficient data handling.
- Integrated mathematical operations within the ISA to facilitate precise logical handling necessary for FEC.
- Incorporated multiple branches to address various FEC data handling scenarios.
- Utilized **Quartus**, **System Verilog**, and Assembly for design and implementation.

Bitcoin Hashing Model - Developer   https://github.com/B1mendez/Bitcoin-Hashing
- Developed a Bitcoin hashing model using System Verilog and Quartus, which utilizes the SHA-256 cryptographic hashing algorithm to securely chain blocks of bitcoin transaction data

KEY SKILLS

Skills: (Proficient) Java, HTML, CSS, JavaScripts, Python, C++ System Verilog, Quartus, VSCode, Git, Github, (Familiar) Django, Node.js, Electron.js, C, MATLAB, LaTex, LT Spice, Google Analytics, Google Ads
Languages: Fluent in English & Spanish