

# Brian Mendez

[www.brianmendez.dev](http://www.brianmendez.dev)

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## EDUCATION

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University of California, San Diego

B.S.E , Electrical and Computer Engineering

September, 2023

San Diego, CA

## WORK EXPERIENCE

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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

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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.
- **Agile** Software Development **Practices** like a **crafting** a project roadmap, Sprint Planning, Retrospectives, User Stories, managing project milestones, and Daily Stand-ups meetings

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

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**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