Brian Mendez

(818) 271-6620

Portfolio: www.brianmendez.dev

brianmendez.dev@gmail.com

EDUCATION

University of California, San Diego **Sept. 2021 – Sept. 2023**

Bachelors in Electrical and Computer Engineering

Coursework: Advanced Data Structures, Design & Analysis of Algorithm, Software Engineering, Computer Operating Systems, Computer Architecture, Circuits & Systems, Advanced Digital Design, & Product Marketing & Management

KEY SKILLS

Languages: Java, HTML, CSS, JavaScript, SQL, Python, C++, C, C#, SystemVerilog, MATLAB, x86

Tools: Agile, Quartus, VS Code, JUnit, Git/Github, Django, Node.js, Electron.js, LaTex, LT Spice, Google Analytics

Languages: Fluent in English & Spanish

WORK EXPERIENCE

Better Times Tutoring - Founder & Lead UX/UI Designer **Sept. 2022 – Present**

- *Engineered* a multi-device compatible website enhancing UX/UI**.**
- *Increased* user engagement through a professional, minimalistic design.
- *Optimized* page structures, ensuring efficient load times, improving website performance by 30%.
- *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. 2020– June 2022**

- Provided expert tutoring in STEM subjects, enhancing the learning experience for students

RELEVANT PROJECTS

Invoice Management System- Java Developer **September 2023**

- *Developed* a Desktop App using **Electron.js** featuring CRUD operations for client data.
- *Integrated* an automated monthly invoice generator using **jsPDF** API for selected clients.
- *Introduced* a breakdown chart visualizing progress towards total possible revenue.

Personal Finance App - Team Leader **December 2022**

- *Led* a team to develop a web browser featuring CRUD operations for expense data.
- *Facilitated* user account creation and login features, enabling personalized user experiences
- *Implemented* a category breakdown chart for expenses, aiding users in financial planning.
- *Employed* **Agile methodology**, fostering iterative development and timely delivery.

Data Recovery Microprocessor - Project Manager **August 2023**

- *Designed* using **SystemVerilog** to recover and restore corrupted transmission data using FEC and DED techniques.
- *Implemented* a machine code converter for translating **custom assembly language** into machine code, enhancing processor efficiency.
- *Ensured* simultaneous data processing and operation conducting, boosting the performance by 38%.
- *Achieved* data handling solely through registers, eliminating memory access delays.

Bitcoin Hashing Model - Developer **May 2023**

- *Constructed* with **System Verilog** and **Quartus**, incorporating SHA-256 cryptographic hashing algorithm
- *Developed* for the Bitcoin blockchain to chain blocks securely and immutably.
- *Implemented* parallelism to optimize the processing speed of the hashing algorithm by 54%.