Misael Bolainez

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Merced, CA   Phone: (209) 566 - 3664

TECHNICAL SKILLS

- **Programming Languages**: HTML, CSS, JavaScript
- **Frontend Development**: React.js, Bootstrap, p5.js
- **Backend Development**: SQL, Node.js, Express.js, Firebase, MongoDB
- **Wireframing**: Figma
- **Version Control**: GitHub, Git
- **Project Management**: Agile methodologies, Trello

PROJECTS

Music Player   Jun 2023 - Jul 2023
- Led and advised a team of six to develop a Full Stack Application using React.js, Express.js, Node.js, MongoDB & AWS
- Leveraged Spotify's Dev Documentation to integrate Spotify API and authenticate user information
- Employed API integration to seamlessly retrieve and produced users' playlist data on the app UI

Quizzical   May 2023
- Demonstrated proficiency in React.js and front-end development by completing a Scrimba React course's final project, delivering a fully functional five question quiz app based on a Figma design
- Implemented the he.js library for decoding data retrieved from an API and nanoid to generate unique keys for the quiz components

Minesweeper   Jan 2023
- Designed a responsive grid-based game board with three difficulty levels, optimizing user experience and engagement
- Computed a 2D array to store randomized bomb locations for 10, 40, and 99 bombs; tracking the number of bombs adjacent to each cell
- Executed recursive functionality to reveal empty cells creating a seamless gameplay experience

Tic-Tac-Toe   Aug 2022
- Built a functional tic-tac-toe game website with an intuitive user interface
- Optimized game mechanics by customizing the computer's logic to align with three difficulty preferences
- Led the implementation of a sophisticated difficulty scaling feature for the computer player, elevating user satisfaction by providing increasingly challenging gameplay

Boggle   May 2022
- Engineered and completed an innovative click-and-drag functionality, enabling seamless word creation on the game board
- Integrated a comprehensive dictionary of 50,000 words stored in an array to validate user-created content
- Orchestrated the integration of animations, empowering users to effortlessly rotate the game board and gain fresh perspectives

CAREER HISTORY

Full Stack Developer Intern | Apr 2023 – Dec 2023
Bay Valley Tech - Free Code Academy
- Developed and collaborated on 5+ projects by using HTML, CSS, JavaScript, React.js, SQL, Firebase and Node.js
- Managed and directed full-stack projects with a team of six by following agile methodologies
- Volunteered as a TA to help mentor and guide 80+ students through code reviews and assignments

Web Application Developer Apprentice | Feb 2022 – Oct 2022
AlphaWorks, Bitwise Industries Apprenticeship Program
- Designed and advised on 10+ user-friendly websites/mobile sites by using HTML, CSS, JavaScript, React.js & Bootstrap
- Collaborated with teams of 10 using agile methodologies; contributing to the software development life cycle
- Mentored and trained 50+ pre-apprentices through peer programming sessions and code review

EDUCATION

University of California, Merced   Dec 2021
Bachelor of Science: Computer Science and Engineering