OWEN DONOHUE

SOFTWARE ENGINEER

CONTACT

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Owenpdonohue@gmail.com

EDUCATION

Sonoma State University

- Bachelor of Science in Computer Science

EXPERIENCE

Full-Stack Developer | 2024

Senior Project

- Conceptualized and led the development of a full-stack React application that allows users to manage account and character data for the MMORPG World of Warcraft, facilitating team creation and strategic planning.
- Integrated the Blizzard API for seamless character data retrieval, enabling users to add characters to their accounts by entering a character name, and incorporated features for stat analysis, comparisons, and note-taking.
- Developed a secure RESTful API using Node.js and Express.js, designed with robust JWT-based authentication to ensure secure access to user data.
- Implemented authentication and authorization flows, enabling account creation, secure login/logout, and role-based permissions for data management.
- Deployed the backend on a scalable AWS-hosted SQL server, ensuring high availability, data integrity, and optimized database queries for smooth operations.
- Built an intuitive and responsive React.js front-end with Material-UI, delivering a user-friendly interface that enhances user engagement and functionality.
- Employed state management libraries and asynchronous programming techniques to ensure seamless real-time interactions between the client and server.

Compiler Engineer | 2024

Sonoma State University

- Designed Interpreter for C-style language in C++. Interpreter consisted of 6 step process of removing comments, tokenizier, using a symbol table, abstract syntax tree, concrete syntax tree, and the final interpreter with a program counter

Data Analyst | 2023

Sonoma State University

- Developed a CNN and used algorithms to classify 80 GBs of public photos of a solar eclipse using Tensorflow and Keras libraries.

Music Tutor | 2020

Casa Grande High School

- Helped others with developing performance skills and fundamentals in Jazz and Classical Trumpet

SKILLS AND PROGRAMMING LANGUAGES

Courses

- Algorithm Analysis, Computer Vision, React Development, Programming Languages, Statistics, Game Development

Programming Languages | Tools

- C, C#, C++, Python, HTML, JavaScript, Visual Studio, Jupyter Notebooks, MySQL, Github, Google Sheets

Awards and Honors

- NorCal Honor Band | 2020
- Scholarship for Music, Sonoma County Honor Band | 2016