David Garcia

SOFTWARE ENGINEER

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SUMMARY

Experience working on projects both alone and with a team from conception to deployment. Proven ability to lead projects and improve user experience. Passionate about programming as a job and as a hobby.

WORK EXPERIENCE

Software Engineer

Mometrix Test Preparation   June 2022 - Present

- Technical lead for the development of a rich text editor built using the ProseMirror toolkit and its implementation into the company's internal PHP-based task platform resulting in improved user experience and the ability to write task updates in greater detail, facilitating the creation of over 100,000 comments and updates in one year of use.
- Regularly implement new features and web page refinements in the company's flagship online courses platform written in Flask.
- Lead developer on a front-end hierarchy editor to load, create, and modify hundreds of database hierarchies at a time using React and TypeScript to be used for editing content on the company's online learning platform which accounts for 20% annual revenue.
- Designed a web-based IV drip rate calculator for healthcare students, attracting 20,000 page views within nine months.

Software Engineering Intern

Mometrix Test Preparation   October 2021 - May 2022

- Sole developer of a rich text editor built using the ProseMirror toolkit.
- Created a flask application for managing iDevAffiliate group access.

Software Engineering Intern

Application Factory, Inc   April 2021 - October 2021

- Utilized the Angular framework with HTML, SASS, and TypeScript to update the company's website.
- Diagnosed and resolved critical bugs in the flagship application using .NET framework, WPF, and C#, enhancing system stability.
- Refactored code to adhere to the MVVM design pattern, enhancing logic separation and maintainability.

PROJECTS

Watch Algorithms | https://joegar000.github.io/watch-algorithms

- Single page application constructed using TypeScript, React, and the React Router library.
- Applied CSS transitions to animate the sorting patterns of various algorithms.

AI Language Partner | https://github.com/joegar000/ai-language-partner

- Next.js application for voice chatting with a ChatGPT model, primarily to practice a new language.
- Implemented OpenAI's API for chat completions and text to speech.
- Styled components with Tailwind CSS.

EDUCATION

Bachelor's Degree in Computer Science

Lamar University | Beaumont, TX   August 2018 - May 2022

Minor Degree in Mathematics

Lamar University | Beaumont, TX   August 2018 - May 2022