

# David J. Garcia II

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## **EXPERIENCE**

**Mometrix Test Preparation** – Software Engineer | October 2021 – Current

- Consistently use Git and GitHub to incrementally add and review new features on group and solo projects
- Led development on a front end web application to create and edit existing database hierarchies using React, TypeScript, and Jest
- Led development of a WYSIWYG text editor written with TypeScript and the ProseMirror toolkit to speed up and generalize the process of writing HTML content
- Created a web calculator that, while adhering to styling and output specifications, takes a mathematical expression and outputs the steps taken and their relation to the order of operations
- Used Python and the JavaScript Fetch API to dynamically retrieve and update database content to maintain consistent page loading speeds and intuitive user interactions
- Regularly perform package management on front end applications with NPM
- Regularly use Parcel to transpile TypeScript to JavaScript for application development and deployment
- Regularly use the Jest testing Framework to ensure proper functionality of web applications
- Implemented front end applications into a Python/Flask CMS using Python, Flask, and Jinja to initialize the applications and update database content to reflect updates to the data made by the user
- Updated the comment system on a PHP based task system to utilize a WYSIWYG text editor using NPM and TypeScript to improve user experience in writing detailed task updates in HTML such as embedding images, videos, and websites; creating tables; and editing existing comments inline

**Application Factory, Inc** – Software Engineering Intern | April 2021 – October 2021

- Spent two weeks using the Angular framework with HTML, SASS, and TypeScript to update the company's website
- Worked with the .NET framework, WPF, and C# to find and fix bugs in an application
- Refactored code to match the MVVM design pattern to improve separation of logic and maintainability
- Added new application features and performed debugged using Microsoft Visual Studio to improve user experience
- Utilized Git and GitHub to track the discovery and resolution of bugs found within the application

**Lamar University Tutoring Center (STAR Services)** – Math and Computer Science Tutor | January 2020 – December 2020

- Tutored students in one-on-one sessions in math subjects up to Calculus 1
- Tutored a group of ~7 students once a week in contemporary mathematics for a semester
- Regularly participated in training sessions involving leadership and communication skills

## **PROGRAMMING LANGUAGES & FRAMEWORKS**

- React – hierarchy editor (11 months)
- TypeScript/JavaScript – text editor, hierarchy editor (2 years)
- Python/Flask – bug fixes (2 years)
- Bootstrap – various interface stylings (2 years)
- HTML, CSS – interface development (2 years)
- Java – college courses (6 courses)
- C# – code maintenance (6 months)

## **EDUCATION**

College: Lamar University, Beaumont, TX  
Major: Bachelor of Science in Computer Science  
Minor: Mathematics

May 2022  
GPA: 3.8