

Karl Rodriguez

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Technical Skills

Languages: C/C++, Java, JavaScript, TypeScript, HTML, CSS, Python, SQL
Frameworks & Tools: React.js, Bootstrap, JUnit, Jest, MySQL

Personal Projects

Recipe Finder App | *TypeScript, HTML, CSS, React.js,* Oct. 2024

- Developed a website which allowed users to input what ingredients they had and got up to 10 recipes back
- Integrated the Spoonacular REST API to fetch recipe results
- Implemented cuisine and course filters for recipe results
- Helped users quickly to find recipes from the ingredients they already had

Sorting Algorithm Visualizer | *Java, JUnit* Sept. 2024

- Created a program that let users visualize sorting algorithms in the terminal
- Implemented selection, bubble, merge, and insertion sort algorithms
- Integrated features to randomize and resize the arrays that were displayed as histograms
- Created unit tests with JUnit and tested the sorting algorithm implementations to verify their correctness
- Assisted users in learning how various sorting algorithms work by visualizing them

Weather App | *JavaScript, HTML, CSS, React.js* Aug. 2024

- Built a weather app which told the user the current weather conditions at the entered location
- Integrated the Visual Crossing API to fetch current weather data
- Allowed any valid location to be entered and weather information, like current temperature and humidity, would be displayed
- Let users view current weather conditions quickly in a neat matter

Wordle Clone | *JavaScript, HTML, CSS* May 2024

- Developed a clone of the popular web-game 'Wordle'
- Utilized CSS's flexboxes to replicate the game's UI
- Implemented a word-bank which the word to guess was randomly chosen from
- Integrated an on-screen keyboard which allowed for user guesses

Education

Simon Fraser University
Bachelor of Science in Computer Science

Burnaby, B.C.
Sep. 2023 - Present