Sara Tam

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https://saratam8.github.io/Portfolio-REACT/

Skills & Tools

Languages: Javascript, HTML, CSS, C/C++
Tools: MongoDB, Express.js, React, Node.js, mySQL, Git, Visual Studio Code, Bootstrap, Heroku, Insomnia

Projects

Video Game Web Forum *(Javascript, React, MongoDB)*
September 2023

- Developed a web forum for video game enthusiasts to create and join groups for discussing their favorite video games.
- Led the back-end development in a team of five developers while providing additional support to the front-end components.
- Utilized *MongoDB* to store user account information such as email, username, and group data.
- Implemented modular components with *React* framework, and created a cohesive theme with an enjoyable UI/UX design using *bootstrap*.

Weather Dashboard *(Javascript)*
May 2023

- Developed a dashboard that uses *OpenWeather API* to display the current weather and 5-day forecast of a city chosen by the user within the United States.
- The user's search history is saved into the web client's local storage and the user will be able to click on the saved searches to display their weather data.

Motivational Poster Generator *(Javascript)*
May 2023

- Collaborated on a team of four to create an application that generates a downloadable poster based on user input of quote type and background type.
- Implemented the data persistence of the poster contents so that data is not lost during page reload or refresh.
- Utilizes two third party *APIs*: API Ninjas to generate a quote and Shibe Online to generate the background image of an animal.
- The theme and concept of the application is achieved using the CSS Framework, *Materialize*.

Experience

Northrop Grumman Corporation, *Electronics Engineer*
March 2022 – PRESENT | Rolling Meadows, IL

- Reviewing electronic part lists and component pin outs to ensure a stable *Circuit Card Assembly (CCA)* production.
- Designed an electrical schematic of a *CCA* using *Cadence* for documentation and engineering reference.
- Tested and troubleshooted hardware such as backplanes, switch receives, and transmit hardware.

Northrop Grumman Corporation, *Associate Embedded Software Engineer*
September 2021 – March 2022 | Rolling Meadows, IL

- Performed sensitivity testing and regression testing to characterize behavior and capabilities of an RF system.
- Developed a timer using *Boost libraries* and developed interfaces for outgoing *Protocol Buffers* using *C++.*
- Participated in *Agile Scrum* rituals and groomed user stories to implement *embedded software* features.

Northrop Grumman Corporation, *Associate Systems Engineer*
July 2020 – September 2021 | Rolling Meadows, IL

- Performed co-site analysis and antenna scattering using *ANSYS* tools such as Electronics Desktop, Emit, Savant and SpaceClaim, as well as obscuration analysis using *STK* to obtain 3D plots of the obscured field of view.
- Developed *MATLAB* scripts to generate polar plots for antenna scattering and to generate 2D plots of the antenna's obscured field of view for obscuration analysis.

Education

B.S. in Electrical Engineering — University of Illinois at Chicago | GPA: 3.68/4.0
Full Stack Web Development Coding Boot Camp — Northwestern University