

SANDRA MARR

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LinkedIn: <https://www.linkedin.com/in/sandra-r-marr> | GitHub: <https://github.com/sandra-marr/>
Portfolio: https://sandra-marr.github.io/020_React-Portfolio/

SUMMARY

Full Stack Web Developer with background in project management, scheduling, design engineering and test engineering in construction and aerospace industries. Looking to switch careers and pursue a role in web development with focus on front-end development. Effective at problem solving, communication, collaboration and for producing effective design solutions. Known for removing roadblocks and bringing team members together to deliver results on complex projects.

TECHNICAL SKILLS

Languages: HTML5, CSS3, JavaScript ES6+, SQL, NoSQL

Applications: GitHub, MongoDB, MySQL, Heroku, Insomnia

Tools: Node, Express, React, Handlebars, Bootstrap, UIKit

Other Skills: ENOVIA – Product Lifecycle Management, OPP (Open Plan Professional) – Scheduling Software, Primavera – Scheduling Software, Microsoft Office Suite, Earned Value Management (EVM), Project Management

PROJECTS

Good Enuff | <https://github.com/sandra-marr/Good-Enough> | <https://good-enuff.herokuapp.com/>

- Taking the simple concept of creating a to-do list and turning it into a tool for tracking broader goals using React.
- Responsible for front-end design and the user interface. Supported back-end development and data structure.
- This application uses React, JavaScript, CSS, HTML, Node.js, Apollo-Server-Express, Mongoose, bcrypt, GraphQL, React-Vis, JSONwebtoken, React-Datepicker, React-Bootstrap, Heroku, MongoDB, MongoDB Atlas, Node.js

All About That Art | https://github.com/sandra-marr/P2_All-About-That-Art | <https://stark-badlands-81359.herokuapp.com/>

- A Model View Controller application. An art gallery that allows users to share their work and comment on others.
- Responsible for back-end code, express server, routes, image uploads and storage. Supported front-end javascript and design. Acted as scrum master and project lead for a team of four.
- This application uses CSS, HTML, Javascript, UIKit, Express, Node.js, Cloudinary, Handlebars, Multer, bcrypt, MySQL, Sequelize, dotenv, Heroku, JawsDB

The Tech Blog | https://github.com/sandra-marr/014_MVC-Tech-Blog | <https://desolate-dusk-70425.herokuapp.com/>

- A Model View Controller Application. This is a blog site for people in the tech community to share thoughts and comment on posts.
- Responsible for front and back end development, design, and user interface.
- This application uses HTML, CSS, Node.js, javascript, Heroku, MySQL, Express.js, Sequelize, Insomnia, Handlebars, bcrypt, Dotenv

Kid's Corner | <https://github.com/sandra-marr/Kids-Corner> | <https://sandra-marr.github.io/Kids-Corner/>

- A front-end application that is geared toward learning for kids. This application allows users to select a state, read about facts, see pictures related to that state, and add it to their passport to track learning.
- Responsible for front-end design. Supported front-end javascript and API calls. Acted as scrum master and project lead for a team of four.
- This application uses CSS, HTML, UIKit, Wikipedia API, jQuery, Moment.js, Pixabay API, and OpenWeather API.

EXPERIENCE

The Boeing Company – Boeing Test and Evaluation

Security Clearance - Active

777x Test, Evaluation and Design Engineer – Everett, WA – June 2018 – July 2021

Designed, reviewed, procured many structural steel and counterbalance fixtures. Led cross functional teams including union mechanics in fabrication and installation efforts in support of the test setup. Troubleshoot design issues upon integration. Organized the workflow and schedule for a team of 15. Acted as Floor General and managed a team of 15 during test conduct activities for a full scale airplane test. Test Conductor for a multi-million-dollar full scale test program while maintaining configuration, site safety and improved cycle speed.

- Designed 50+ reaction structure, access, and counterbalance systems for Full Scale Fatigue Test.
- Drafted 100+ drawings and coordinated release of 500+ drawings.
- Reduced shop downtime by 1 month on average during fabrication and installation by redlining existing designs and drawings.
- Failure Mode Evaluation and Analysis – Identified high risk items, and implemented solutions to lower potential hazards/failures during test conduct.

Flight Test Integrated Planning and Scheduling Specialist – Seattle, WA – 2015 – June 2018

Developed detailed integrated schedules for various military aircraft test programs. Created weekly reporting tools, allowing engineering managers to accurately depict status and predict cost overages. Worked with various teams to build proposals for new military programs. Coordinated and integrated with teams across the US and internationally. Conducted schedule analysis including critical paths, variances, estimated at completions.

- Product Development Lead for the military surveillance program's integrated scheduling team.
- Lead Scheduler for 15 programs.
- Led standardization of data visualization and metrics with Earned Value Management approach.
- Developed automated tools to streamline weekly schedule checks and reporting processes.
- Led the balancing of labor and non-labor resources across several large-scale programs.
- Built over 40 baseline schedules across multiple programs, all following Earned Value Management standards.

Bechtel – Nuclear, Security & Environmental Business Unit

Project Controls Engineer – Richland, WA – 2014 – 2015

Conducted critical path analysis and ran monthly schedule metrics for project health reviews. Balanced resource loads in schedule. Performed monthly quality checks on imported cost data.

- Implemented a new Cost and Commitment system to support reports generated for the Department of Energy contract deliverables.
- Developed a standardized weekly reporting dashboard.

EDUCATION

Bootcamp Certificate in Full Stack Web Development: University of Washington, Seattle, WA, September 2021
A 24-week intensive program focused on gaining technical programming skills in HTML5, CSS3, Javascript, JQuery, Bootstrap, Node Js, MySQL, MongoDB, Express, Handelbars.js & ReactJS.

B.S. Civil Engineering: University of Illinois UC, focus in Geotech and Construction Management, 2014

EIT Washington State: Engineer in Training Certificate, 2016