

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. Effective at problem solving for effective design solutions. Known for removing roadblocks and bringing team members together to deliver results on complex projects.

TECHNICAL SKILLS

- HTML
- CSS
- Bootstrap
- React-Bootstrap
- UIKit
- Javascript
- jQuery
- Node.js
- Web APIs
- Third Party APIs
- Server-Side APIs
- Object Oriented Programming (OOP)
- Heroku
- MySQL
- MySQL Workbench
- Insomnia
- MongoDB
- Robo 3T
- Cloudinary
- Express
- NPM
- Sequelize
- Inquirer
- Nodemon
- Express Sessions
- Jest
- Handlebars
- React.js
- Redux
- Multer
- Dotenv
- ESLint
- Prettier
- Bcrypt
- Multer-Storage-Cloudinary
- Object Relational Mapping
- Moment.js
- React-Vis
- React-Date-Picker
- Git and GitHub
- CATIA – 3D CAD Design
- ENOVIA – Product Lifecycle Management
- STAAD Pro – Structural Analysis and Design
- OPP (Open Plan Professional) – Scheduling Software
- Primavera – Scheduling Software
- Microsoft Office Suite
- Earned Value Management (EVM)
- Project Management
- Cash Based Accounting Method

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://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/Project-1> | <https://sandra-marr.github.io/Project-1/>

- 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

Project Lead/Project Integrator – Seattle, WA – Starting August 2021

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

- Designed 50+ reaction structure, access, and counterbalance systems for Full Scale Fatigue Test.
- Drafted 100+ drawings and coordinated release of 500+ drawings.
- Conducted drawing reviews including drafting, model, and design checks.
- Reduced shop downtime by 1 month on average during fabrication and installation by redlining existing designs and drawings.
- Led workflow and schedule from concept design through to fabrication and installation on a team of 15.
- Mentored peer engineers in drafting and design efforts.
- Led cross functional teams including union mechanics in fabrication and installation efforts in support of the test setup.
- Failure Mode Evaluation and Analysis – Identified high risk items, and implemented solutions to lower potential hazards/failures during test conduct.
- Work on cross functional teams to support fuselage pressurization testing and troubleshoot during hydraulic load system pinning.
- Test Conductor for a multi-million-dollar full scale test program while maintaining configuration, site safety and improved cycle speed.

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

- Product Development Lead for the military surveillance program's integrated scheduling team.
- Lead Scheduler for 15 programs.
- Led proposal development of plans and schedules for various high priority programs.
- Ownership of entire project lifecycle:
 - Schedule analysis to reduce impacts to the critical path.
 - Running weekly return to green plans to assist the managers in correctly forecasting their remaining scope.
 - Developing detailed forecast profiles used by Control Account Managers (CAMs) to conduct Estimate at Completion updates.
 - Compiling relevant cost and schedule data to evaluate monthly variances at a control account level.
- Integrated schedules across multiple international organizations.
- 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.
- Led Earned Value Management standardization for weekly reporting.
- Led cross functional progress meetings to stay on schedule and identify problems.
- Implemented a new Cost and Commitment system to support reports generated for the Department of Energy contract deliverables.
- Performed monthly quality checks on imported cost data.

EDUCATION

Bootcamp Certificate in Full Stack Web Development: University of Washington, Seattle, WA

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