

Mudassar Memon

FULL STACK SOFTWARE ENGINEER

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Civil Engineer turned Software Engineer. Over 5 years of expertise in construction project management. Passionate about leveraging my engineering and project management background to implement software solutions that address real-world challenges, within the construction sector and beyond. Proficient in React-Redux, JavaScript, Ruby, Rails, SQL, and more, with an ambition to lead technological integrations in sectors ripe for digital enhancement.

LANGUAGES: React-Redux, JavaScript, Ruby, Python, SQL, HTML, CSS **DATABASES:** PostgreSQL, MongoDB, SQLite
FRAMEWORKS: Ruby on Rails, Express.js, Node.js **TOOLS:** AWS, ActiveRecord, Mongoose, JBuilder, Git
OTHER: Project Management, Test Driven Development (TDD), Object Oriented Programming (OOP), Pair Programming

PROJECT EXPERIENCE

Officebook >> React-Redux, JavaScript, Ruby, Rails, ActiveRecord, PostgreSQL, AWS, JBuilder, BCrypt, HTML, CSS [Github](#) > [Live](#)
A full stack web application clone of Facebook with a dynamic user interface and a theme inspired by NBC's, 'The Office'

- Implemented robust backend using Ruby on Rails, PostgreSQL, and JBuilder to allow seamless integration with frontend
- Created standardized and predictable routes in adherence to RESTful API principles to execute associated CRUD actions
- Incorporated a highly secure backend using BCrypt password encryption, backend validations, constraints and pre-authorizations, CSRF, and session-based authentication with the ability to conveniently persist login status
- Designed frontend using React, emphasizing DRY, modular, and reusable code, and efficient state management via Redux

TuneUp >> React-Redux, JavaScript, Express.js, Node.js, AWS, MongoDB, Mongoose, Passport.js, HTML, CSS [Github](#) > [Live](#)
A digital hub designed for musicians seeking local counterparts to form bands or engage in jam sessions.

- Engineered sophisticated backend using Express.js framework and various tools, such as express-validator, express-router, in addition to MongoDB and mongoose for data storage and manipulation
- Secured backend using Passport.js and JWT-based authentication to provide a safe and reliable user experience
- Integrated a dynamic React frontend, with Redux state management and Google Maps API to provide a vibrant and engaging experience for users to create, manage, and search events based on proximity with the ability to sort by date
- Collaborated with 5 engineers, maintaining clear and consistent communication and excellent git feature workflow

Binary Search Tree Visualizer >> JavaScript, HTML, CSS [Github](#) > [Live](#)
An interactive visual demo aimed at teaching complex data structures and algorithms in a simple way

- Developed single-page web application using JavaScript and HTML canvas to provide a visual sandbox learning environment

WORK EXPERIENCE

EW Howell LLC >> *Project Manager* > New York, NY **May 2016 – May 2022**

- Successfully managed the construction of multiple NYCSCA schools, including PS 338, PS 419, and PS 464, with project budgets ranging from \$60M to \$80M
- Proficient in various aspects of construction management, from interpreting construction drawings and specifications to managing multiple subcontractors and overseeing up to 100+ personnel on-site daily.
- Managed construction processes, including RFIs, contract negotiations, bids and estimations, change orders and payments, and project closeouts. Proficient in material procurement, safety standards, QA/QC, and LEED guidelines.
- Quickly rolled out a new NYC DOB-compliant COVID-19 plan and took the initiative in training new personnel

EDUCATION

APP ACADEMY >> *Full Stack Software Engineer*

October 2023

STONY BROOK UNIVERSITY >> *Bachelor of Science in Civil Engineering* >> Stony Brook, NY

May 2017