

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, Python, 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 **React** frontend, emphasizing **DRY**, modular, and reusable code, and efficient state management with **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 robust 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
- Streamlined development process and enhanced team collaboration by leveraging my project management expertise, maintaining clear communication, excellent **git** workflow with a team of 5 engineers and ensuring timely delivery

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.

- Built 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* >> *New York, NY*

October 2023

Stony Brook University >> *Bachelor of Science in Civil Engineering* >> *Stony Brook, NY*

May 2017