

MANRAJ SINGH

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Software engineer with 2 years of experience in full stack development and multiple technologies such as React, Javascript, Node, Ruby on Rails, MongoDB, Postgres Python and Java.

EDUCATION

Web Development - *App Academy*

Bachelors of Technology in Computer Science *Punjabi University, Patiala* | 2018

SKILLS

Ruby, Java, C/C++, JavaScript(ES6) MySQL, Node.js, NPM, Babel, GitHub, Git, React/ Redux, Ruby on Rails, HTML5/CSS3, jQuery, SQL, AWS, MongoDB, Postgres, Express.js, HighCharts, Python, Heroku, MVC, Agile Methodology, Android Development, Jest, Mocha, Jasmine, Capybara

EXPERIENCE

Software Engineer

October 2020 - Present

Freelance

- Involved in **JavaScript** coding for validations, and passing attributes from one screen to another.
- Involved in developing design documents with **UML class diagrams**.
- Applied client side validations using **JavaScript** and **Jquery**.

Software Engineer

August 2019 - September 2020

Bluehill Hosting.

- Wrote design specifications to ensure the websites build for customers precisely matched their requirements
- Utilized third party API to fetch current prices of the products
- Designed recursive, asynchronous algorithm that queried Google Maps API to render routes.
- Performing unit testing using **JEST** and **Mocha** along with integration testing **Chrome Inspector** to fix bugs and working closely with QA.

System Software Engineer

January 2018 - July 2019

Infosys Ltd.

- Developed single page applications using Java, Angular, JQuery, HTML/CSS, Bootstrap, ES6 & Hibernate.
- Actively worked in designing DB of the application to maximize efficiency & minimize redundancy of data.
- Utilized MVC principles to ensure a clean architecture and a lean code base for maximum efficiency.
- Followed Agile development best practices and consistently delivered new features on time during sprints.

PROJECTS

Blogium (Ruby on Rails, ReactJS, Node, Postgres)

[live](#) | [github](#)

Social journalism website

- Ensured the safety of the user credentials implemented user auth by creating unique session tokens using Secure Random and saving passwords at the backend using **BCrypt**.
- Implemented new post creation through form data submission via ajax to be saved to database and returned for rendering by frontend.

- Integrated likes into posts by dispatching actions to the global Redux Store and updating local state via `mapStateToProps()`.
- Used Active Storage in conjunction with AWS S3 to reduce server load time of images.

What's the weather (JavaScript, Highcharts)

[live](#) | [github](#)

Live weather web application that forecasts weather of any city in the US.

- Used VanillaDOM to create and fill HTML tags dynamically with live data received from Open Weather Map and Weatherbit.io API.
- Utilized Highcharts library to create a graphic representation of the JSON response from the API.
- Combined temperature, precipitation, wind direction, air pressure and weather status into a sleek, interactive, user-friendly visualization.

Dumbbells-N-Donuts (MongoDB, Express.js, ReactJS, Node)

[live](#) | [github](#)

Fitness management web application that helps users manage workout routines and meals, and is developed using the MERN stack.

- Implemented user auth by signing JSON Web tokens and sending them to the frontend headers of the subsequent Axios calls.
- Developed a two step signup page caching local state within the Redux store to persist data when refreshed.
- Ensured Redux-persist stored needed information on reloading, forbidding users to lose selected muscle groups.
- Created search filters to permit users to find meals based on how many calories they want per meal.