

Rajeev Chapagain

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EDUCATION

Bachelor's in Information Technology and Computer Science

Northwest Missouri State University, Maryville, MO, USA

Summary

Passionate Full stack Developer with vast knowledge in software systems and requirements analysis, development, implementation of web-based applications. Able to effectively self-manage during independent projects, as well as collab.

- Excellent Knowledge in implementing various full stack (**React, Spring boot, Node js**), by writing server-side code with **java Spring Boot** framework, **SQL** and **MongoDB database** to store and retrieve data and front-end web pages designing with **React**.
- Hands-on knowledge in consuming **Restful** Services using JavaScript and Proficient in creating **Rest APIs** with frameworks like **Spring Boot / Node** and database modelling tool like **Mongoose and Spring JPA** and databases like **MongoDB and MySQL**.
- Expertise in using **React.js/Redux** to build User Interface, strong knowledge of state store, **reducer** and **redux persist**.
- Expertise in **React JS** and working with **Redux architecture**.
- Created reusable components for the application and used props to pass data between parent and **child component**. Also, created a functional component as well as a class component to maintain code simply and cleanly.
- Used **React-Router** to create a single page application. Applied **Router Guard** to deny unauthorized access.
- Used **Axios** for HTTP requests and attached **Bearer token** for secure usage of API.
- Extensive knowledge of **ES6 features including let, const, and arrow function**.
- Expertise in **optimizing app** performance using optimization **hooks** like useMemo in React.
- Knowledge of rendering **large data sets** on the application view using **ReactJS**.
- Extensively used **Git** and other source control management such as **GitHub**.
- Proficient in building interactive Front End/User Interface pages using **HTML5, CSS3, JavaScript, ES6, styled-components, Material-ui**.
- Worked with advanced JavaScript concepts like **Promises, map, reduce, filter and async/await**.
- Extensive knowledge of **Formik, Yup validation, Axios, React router**.
- Profound knowledge of **authentication and authorization** mechanism.
- Used **Redux Toolkit** for **state management** in **React**.
- Can implement code according to coding standards.
- Knowledge of using **GitHub** as **Version Control Tool**.
- Knowledge in developing complex **PL/SQL queries, Procedures, Triggers, Stored Procedures**
- Developed application using **Java/J2EE platform**. Implemented the **Model View Control (MVC)** structure.
- Good knowledge of Design patterns like **DAO, DTO** and **Model View Controller**.
- Good Knowledge of developing applications using **Serialization, Collections and Generics**
- Can Implement the database connectivity using spring **JPA with MYSQL** database as

backend.

- Have good knowledge of **data validation** in **spring boot**.
- Applied Object-Oriented Programming (OOP) principles by using **Interface, Abstract, Overriding and Overloading**.
- Have a good knowledge of Java Collections such as **HashMap, List** to store data and passed along with **spring JPA**.
- Can effectively implement **spring security** in any web application.
- Good knowledge of creating the authentication process. And configuring Spring for customized **JwtTokenProvider**, incorporated **JwtFilter**, yet not conflicting global **CORS** requirement.
- Can create effective login route and authentication using **JSON web token** with **Springboot**.
- Can use **postman** proficiently to test **REST API`s**.
- **Knowledge of visualization tools like tableau and Microsoft excel.**

Projects

Library Management System:

Summary: Library Management System is a web application which make checking out books and returning books for student easier than ever before. It also helps librarian to see the stock of books and make it easy to manage the records.

Contribution:

- Created User Interface using front-end technology like **React js, Material Ui**.
- Created beautiful forms using **Formik** library and validated input using YUP validation library.
- Worked on routing the single page application using React router Dom to render various pages.
- Managed the state of the application using **Redux toolkit**.
- Used **Axios** library to communicate with backend **REST API**.
- Worked on the optimization of application using hooks like **useCallback** and **useMemo**.
- Created **Rest API** using backend technology like **Spring boot**.
- Created user **login** and **logout** route using authentication token.
- Wrote complex **MySQL**, query to extract data from database.
- Implemented joins in **MySQL** to get the desired data from database.
- Implemented **agile methodology** approach to develop the application.
- Participated in the daily **scrum**.
- Used **GitHub** for the collaborative development of the application.

React Dashboard:

Summary: React dashboard is the personal project where I have implemented the knowledge of my react. This is the theme project which is not connected with backend.

Contribution:

- Created the beautiful UI using React.js, Material Ui and Nivo Charts.
- Used Data grid from Material UI to display data in grid.
- Used Nivo Charts to display the analytics of the data in various charts Like Pie Chart, Bar Chart, Geo Chart and Line Chart.
- Created Calendar using full calendar library where user can schedule their task on calendar.
- Used Formik Library to get information from the form.

- Used material UI theme to provide various Theming option.
- Used React Router Dom to navigate through the application.
- Used Hooks like useState, useEffect, useContext, useCallback for various purpose.

Project Link: [REACT DASHBOARD](#)

Employee Management System:

Summary: Employee Management System is a full stack application which I created using technologies like Reacts, Spring boot and MySQL. This application implements the User Account system where individual user have individual account and they get access according to their Roles Assigned in the system.

Contribution:

- Created User Interface using front-end technology like **React js, Material Ui**.
- Used **React Router Dom** to navigate through pages.
- Used **Redux toolkit** for state Management of the application.
- Used **React persist** to save the state of the application on local storage.
- Used material **DataGrid** to show the relevant data.
- Created **Rest API** `s using Spring boot.
- Implemented **Spring security** and allowed only authorized access to the application.
- Wrote complex **MySQL queries** required to insert, retrieve update and delete the data from the database.
- Implemented **MySQL** concept of joins to get the desired data to send through REST API.
- Used **JWT** to validate the **authorization** of the user in the application.
- Implemented Roles in the application using **Spring Security**.
- Implemented the concept of **Admin and User**.

Project Link: [Employee Management System](#)

Technical skills

Web Technologies: HTML, CSS, Java, MongoDB, MySQL JavaScript/Typescript, ES6/5, JSON, Rest API

JS Framework, Libraries, IDE: Spring boot, ReactJS, Nodejs Express.js, Material UI, Visual Studio Code, IntelliJ

Testing\ Others: Chrome Development Tool, Git, NPM, yarn, Maven, Firefox Development Tool, TDD (Test Driven Development).

Operating System: Windows, mac OS

Environment: Spring boot, Java, MySQL, MongoDB, JavaScript/TypeScript, React, Redux Toolkit, HTML, CSS, Git, Agile methods.

[GitHub](#)

[LINKEDIN](#)