

# Sachin Macwan

Software Engineer

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## Summary

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Experienced software developer with 4+ years of expertise in crafting and optimizing GraphQL APIs with Node.js, specializing in intricate back-end logic orchestration. Proven proficiency in developing responsive user interfaces using ReactJS and Redux, contributing significantly to diverse projects.

## Relevant Experience

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Software Developer @ Royal Bank of Canada, March 2022 – February 2024 // Toronto, Ontario, Canada

*Client domain: Wealth Management (Banking)*

*Description: Worked mostly as a back-end developer for a large wealth management company. The Back end was used by more than 1 front end systems depending upon the user requirement. It had 4 repositories. The technologies used are Nodejs Express, Jest, GraphQL, SQL and Postman. Worked on converting stored procedures to Nodejs code, SQL queries, Nodejs code to dynamically creating queries depending upon payload, debugging and solving existing code.*

Technology stack: Back-end: Nodejs, Express, GraphQL, SQL, Kafka, JEST

Front-end: Reactjs, Redux, Material UI, RTL

Roles and Responsibilities:

- From coding perspective, I wrote multiple features like matrix for validating request and function that can support different matrices, feature flags in model, SQL queries, test cases for all the features all of them having 100% test coverage, unit and end to end test cases, and performed end to end test cases for all the features before releasing.
- Engaged in the development of GraphQL APIs using Node.js, overseeing a intricate codebase distributed across 4 Git repositories—1 main repository and 3 specialized libraries.
- Specialized in crafting validation rules in Node.js, ensuring the integrity of incoming requests through intricate business logic. Implemented logic for client account relationships, client-client relationships, and various account types across different client and account categories.
- Played a pivotal role in the creation of dynamic queries tailored to distinct business needs, augmenting the system's flexibility through the power of Node.js.
- Contributed significantly to the orchestration of back-end logic, emphasizing validation, interpolation, query organization, and optimization of data retrieval processes.
- Leveraged Node.js for coding, executed SQL queries for database interactions, and upheld code quality with thorough Jest test cases for each module prior to initiating pull requests (PRs).
- Successfully converted a multitude of stored procedures to JavaScript logic, streamlining database interactions and amplifying the overall system efficiency.
- Collaborated closely with business analysts to elucidate requirements, ensuring a comprehensive understanding of specifications before implementation.
- Conducted end-to-end testing using Postman, validating the seamless integration of diverse back-end components.
- Operated within an Agile environment, adhering to a structured weekly release cycle with code releases every Thursday. Utilized Helios for deployment, releasing to QA for rigorous testing. Previously, conducted meticulous smoke tests to ensure code stability before formal QA processes.
- Maintained continuous communication with business analysts and cross-functional teams, cultivating an environment conducive to effective collaboration.

Software Engineer @Telus mobility corporation, January 2020 – March 2022 // Toronto, Ontario, Canada

*Client domain: Telecom*

*Nature of the project: End-to-End Project*

*Description: The client has requested for a support to create a stand-alone application where telecom agents can access information related to customer account. Created multiple dashboard and views at different areas of application. It will describe all the user information such as Voice usage, Data usage, transaction history, Payment information, port information, subscription information etc.*

*Technology Stack: NodeJS, ReactJS, Redux, Express, GraphQL, REST, JEST*

*Client domain: Telecom*

*Nature of the project: Micro-frontends*

*Description: The client requested to create a multiple micro front ends which will integrate into a main shell application. Each feature from shell application has decided to create an individual standalone micro front ends where they can be integrated and called at different places respective to design.*

*Technology Stack: TypeScript, React, Zustand, Express, SinonJS*

Roles and Responsibilities:

- Developed reusable components using material UI, debugged existing redux store and made fixes as per specific feature needs, wrote multiple redux slices for components, completed tickets on time with unit and end to end test cases using React Testing library. Maintained confluence page up to date.
- Played a crucial role in the development of responsive and intuitive user interfaces using ReactJS and Redux for two distinct telecom projects.
- Contributed significantly to an End-to-End project, creating dashboards and views within a stand-alone application for telecom agents. Incorporated ReactJS and Redux to manage state efficiently.
- Played an integral role in a Micro-frontends project, contributing to the development of multiple standalone micro front ends that seamlessly integrated into a main shell application. Utilized ReactJS and Redux to modularize features and ensure a consistent user experience.
- Implemented data fetching and manipulation using GraphQL and REST APIs in the End-to-End project, ensuring real-time and accurate representation of customer account information.
- Ensured code quality and functionality through comprehensive testing, employing JEST to validate ReactJS components in both projects.
- Collaborated closely with back-end developers using NodeJS and Express to establish smooth integration between front-end and back-end layers.

## Skills

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### Programming Languages

JavaScript, TypeScript, HTML, CSS, PHP, Python

### Frameworks and Libraries

React, Redux-toolkit, React-native Nodejs, Express, GraphQL, Styled Components, Material UI  
Bootstrap 4, Tailwind CSS, JEST, React-testing-library.

### Database

MongoDB, MySQL

### Cloud

Firebase, AWS (EMR, EC2, S3) , Azure

### Tools and Platforms

Git, GitHub, Jira, Confluence, Postman, Gulp, PowerBI, Excel

## Education

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Central Queensland University, Melbourne, Australia, November 2017 – July 2019

Master of Information Technology with Software Design and Development as major.

## Personal Projects

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The Event App , February 2024

Nodejs, MongoDB, JEST, Graphql

Link: [https://github.com/Sach7n/graphql\\_api\\_1](https://github.com/Sach7n/graphql_api_1)