

# TANDRITA ROY

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## Work Experience

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### TATA Consultancy Service (Software Engineer) | *React Js Developer*

Aug 2021 - Present

- \* Developed numerous reusable components and implemented a maintainable code structure. Familiarity with React Router for creating dynamic, client-side routing within single-page applications.
- \* Acquired extensive knowledge of Redux including actions, reducers, and middleware and successfully integrated RESTful APIs, handling data responses effectively within React components.
- \* Knowledge of techniques to optimize React app performance, including code splitting, lazy loading, and minimizing re-renders.
- \* Prioritized bug-free code by following best practices, resulting in consistently low bug reports.
- \* Ability to diagnose and troubleshoot issues within the React application using browser developer tools and other debugging techniques.
- \* Proficient in using Git for version control, including branching, merging, and collaborating within a development team.
- \* Enhanced productivity to 80% by applying strong knowledge of data structures and programming skills.
- \* Actively participating in daily stand-ups, sprint planning, and delivering features within the iteration. Represented the team as the first person in contact with the back-end and QA teams. Organized different knowledge transfer sessions for the new joiners.

## Projects

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### Sweet Shop | *React, Firebase, useContext*

September 2023

- \* Sweet Shop is an app which uses Firebase back end. It is building using react js. You can select sweet items from item list and can make order for the chosen item in cart! **Click on the Sweet shop icon to open the site.**

### iNoteBook | *React, MongoDB, Bcryptjs, JWT*

May 2022

- \* iNotebook implements MongoDB database setup with Mongoose and utilized Express validators for data validation. Created authentication endpoints, implemented password hashing with bcryptjs, and utilized JSON Web Tokens (JWT) for secure user authentication. Implemented CRUD functionality for managing notes, leveraged React Context API for efficient state management, and incorporated features such as a modal for editing notes and user-specific note fetching.

### Instagram Clone | *React, Firebase9, Node.js, Javascript, Tailwind CSS*

July 2021

- \* Developed a fully functional Instagram clone using modern web technologies. Utilized Tailwind CSS to create a fully mobile responsive web application. Implemented a custom authentication screen using NextAuth for user registration, login, and password recovery. Integrated the latest Firebase v9 SDK for seamless data storage and retrieval, leveraging Firebase Storage API for image uploads. Managed application state using Recoil, ensuring efficient and scalable state management. Successfully built an Instagram feed with comments feature, allowing users to interact and engage with posts.

## Skills

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**Programming Languages:** C++, Java

**Tools Technologies:** JavaScript, React.js, React Hooks, JSX, Redux Toolkit (RTK), Node Js, Postman

**Database:** Experience with different databases, including , MongoDB, and SQL databases like MySQL.

**Concepts:** Data Structures and Algorithms, Secure Coding Practices in c++

**Soft Skills:** Leadership, Project Management, Presentation

## Certifications

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**Azure:** AZ-900

**Coursera:** Python Basics

## Academic Details

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**B.Tech:** Electronics and Communication Engineering (9.53), Academy of Technology, West Bengal

**High School:** Shyamnagar Girls High School (78%), West Bengal