

# Supriyo Nag

Software Developer

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## Summary

Experienced Project Engineer with hands-on expertise in **Frontend** and **Backend** Development. Proven ability to collaborate closely with stakeholders, gather and document requirements, and ensure project success. Adept at using **React.js** for developing robust and user-friendly applications, paired with **Node.js** for creating efficient and scalable server-side solutions.

## Skills

**OS:** Windows, Basics of Linux commands

**Languages:** JavaScript, HTML, CSS, ES6, Python

**Technologies/Framework:** REST, React.js, Node.js, Express.js, Bootstrap, MaterialUI, DOM, OOP, JSON, Next.js

**Database:** MongoDB

**Tools:** Git, Netlify, Render, VS Code, Heroku, Figma, vercel, GoDaddy

## Experience

### RS Software | Kolkata (Contractor)

[Jul'25 - Aug'25]

#### React Developer Consultant

- Streamlined biller API integration by mapping XML to JSON and designing responsive UI components using HTML, CSS, and JS enhancing system usability and data flow.
- Developed **Checker-Maker** functionality in the ICICI internal portal for secure approval workflows.
- Integrated backend controllers with dynamic HTML and front-end validation using jQuery, AJAX.
- Ensured data integrity through SQL validation and front-end form validation.

### House of musa | Kolkata

[Mar'24 - Jun'25]

#### Software Developer

- Python(INIFD website) code reviews, contributing to a **20%** reduction in the number of bugs identified during the testing phase. [\[LINK\]](#)
- Connect backend(**Node.js**) with Frontend(**React.js**) & also sent sms system to client by **Twilio**.
- Modification Frontend code with react.js [\[LINK\]](#)
- Huge amount of Dataset store in **mongo DB** & shows in Frontend(**React.js**) with bar & pie chart.
- Connect **backend(node.js)** with integrated python(**model.py** converted automatically pickle format(**.pkl**) for Sale Forecasting and also shows in Frontend(**React.js**).
- User Registration System with **Tokenized Link**(nodemailer) using **Sendgrid.com** .
- ERP & LMS** Platform (B2B & B2C) Developed a role-based quiz competition web application supporting both users, integrated with payment gateway and Class-based quiz rendering, Auto-termination quiz page navigation or tab switch, Integrated countdown timer per quiz session, Real-time tracking of attempted vs. total questions.

### Wipro | Kolkata

[Mar'22 - Jan'23]

#### Project Engineer

- Applied advanced **C** programming skills to extract meaningful data from MP3 songs, enhancing data retrieval efficiency by **25%**.
- Spearheaded the implementation of a robust publisher and subscriber model using **Python** and **MQTT** (Cloud MQTT), optimizing communication between devices and achieving a **30%** reduction in message latency.
- Demonstrated exceptional analytical, problem-solving, and debugging skills, resulting in a **20%** improvement in **code quality** and a **15%** reduction in post-deployment issues.
- Leveraged **JavaScript** to enhance the interactivity of web applications, contributing to a **20%** improvement in user engagement and overall user experience.
- Enhanced cross-functional team communication, boosting project delivery efficiency by 25%.

## PROJECTS

### Encrypted Chat App [\[LINK\]](#)

[Oct'25 - Oct'25]

**Skills:** Node.js, Express, Socket.IO, MongoDB, AES-GCM

- Developed a real-time, end-to-end encrypted chat application with private messaging and online user tracking.
- Implemented **AES-GCM** encryption for secure message exchange and persistent storage in MongoDB; deployed backend on Render..

### Figma To Web Conversion [\[LINK\]](#)

[Feb'25 - Feb'25]

**Skills:** HTML5, CSS3, JavaScript, Vercel, Figma, React.js

- Built Converted a **Figma** [\[LINK\]](#) design into a fully responsive **web page** & Deployed on **Vercel** .

## **Electronic Educare** [\[LINK\]](#)

[Jan'25 - Jan'25]

**Skills:** HTML5, CSS3, JavaScript, Vercel, GoDaddy, React.js

- Built and deployed an educational platform hosted on a **GoDaddy** domain.
- Improving UI/UX and aligning the frontend with updated branding and functional requirements.
- Use terms like "modernized," "optimized," or "rebranded" to emphasize your role in enhancing the project.

## **Multi-step Form with Dark Mode and State Management** [\[LINK\]](#)

[Dec'24 - Dec'24]

**Skills:** React.js, Next.js, Zustand, Tailwind CSS, Jest, React Testing Library

- Developed a fully responsive, multi-step form application using modern React features and libraries.
- Multi-step form navigation with reusable components and Zustand state management.
- Implemented a user-friendly dark mode switch with dynamic theme updates.

## **Profile Explorer with Interactive Map Integration** [\[Link\]](#)

[Nov'24 - Nov'24]

**Skills:** React.js, HTML5, CSS3, Google Maps API, JSON, Fetch API, VS Code, Git, npm

- Designed and implemented a card-based interface to display user profiles with essential details.
- Integrated Google Maps API to dynamically display locations with markers, enhancing interactivity.

## **Web Crawler & Chatbot System Implementation** [\[Link\]](#)

[Sep'24 - Sep'24]

**Skills:** React, React Hooks, VERCCEL, ES6, Deployment, Node JS, Express JS, Mongo DB, gemini ai(Api)

- Designed a dynamic chat interface using **React.js** where users could interact with the **AI**, select websites from a dropdown, and ask content-specific questions.
- Integrate an **AI integration** that can understand and process the extracted content from the website.

## **Camera Table with Api intergation** [\[LINK\]](#)

[Aug'24 - Aug'24]

**Skills:** React, React Hooks, VERCCEL, React Hooks, useState, useEffect, REST API, Axios/Fetch API

- Integrated **API** endpoints to fetch and display camera data in a responsive table format.
- Developed a status **toggle feature**, allowing users to switch camera statuses (**Act/InAct**) by **API**.

## **Wellness Retreat WebPage** [\[LINK\]](#)

[July'24 - July'24]

**Skills:** React Hooks, VERCCEL, ES6, Deployment, Node JS, Express JS, Mongo DB, API, Postman

- Created a responsive web page for a fictional wellness retreat using **React.js**.
- Displayed a list of available retreats, allowing users to filter them by date and type.
- Implemented dynamic filtering and state management to enhance user experience.

## **Crud Operation with Auhentication** [\[LINK\]](#)

[Jun'24 - Jun'24]

**Skills:** Mongoose ODM, VERCCEL, ES6, bcrypts, Deployment, Node JS, Express JS, Mongo DB, REST API,

Postman

- Implementing robust **CRUD** operations with integrated authentication.
- Developed and maintained secure web applications using **MERN**.
- Implemented user authentication and authorization using **JWT**.

## **Qkart Backend** [\[LINK\]](#)

[Dec'23 - Dec'23]

**Skills:** Mongoose ODM, JOI, Postman, REST, ES6, MONGO, Express JS, Node JS, Mongo DB, Hashing

Token authentication, JWT Token Password authentication.

- Built the complete set of **REST APIs** for an E-commerce application following the best practices.
- Used **MongoDB NoSQL** database for data storage
- Implemented multiple authentication schemes
- Created a **MongoDB** instance on **MongoDB Atlas** cloud and uploaded products data to the **cloud DB**.

## **Qtfy** [\[LINK\]](#)

[Sep'23 - Sep'23]

**Skills:** React.js, Module-scoped CSS, Flexbox, CSS variables, Material UI, swiper library usage

- Conducted a thorough analysis of the provided **Figma** design, successfully identifying and documenting required front-end components.
- Created modular UI components including Cards, **Carousels**, and Buttons optimizing for reusability across various sections of the application.
- Utilized **REST APIs** to fetch data served by the backend server.

## **Qkart Frontend** [\[LINK\]](#)

[Aug'23 - Aug'23]

**Skills:** Debouncing, Local Storage, React Hooks, Error Handling, ES6, Conditional Rendering, React, Material UI, Keyword Search.

- Built a React SPA with REST APIs for dynamic data loading, authentication, cart, and checkout.
- Enhanced UI with responsive Material UI design and optimized search using debouncing.

## **Qtrip Dynamic** [\[LINK\]](#)

[Aug'23 - Aug'23]

**Skills:** HTML, CSS, JavaScript, HTTP, REST, DOM Manipulation, Event Handling, Render, cURL, JSON

- Improved UI/UX of the website with multi-select filters, image carousels, and conditional rendering of page elements
- Utilized local storage to persist user preference at client-side and facilitated reservation form using **API**.

## **Education**

B.E | Electrical Engineering |KIIT | BHUBANESWAR | c.g.p.a -7.84

[May'16 - Sep'20]

Geektrust certified[\[LINK\]](#)Score:94%, SoloLearn Certified{JavaScript}[\[LINK\]](#)

[Sep'23 - Sep'23]

Cutshort Certified(React.js)[\[LINK\]](#), Udemy Certified(Python)[\[LINK\]](#)