# Ratnajit Swain
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## EXPERIENCE: (3 years)

Trident Analytical Solution Pvt. Ltd. (2.5 years)

Shabd.in: (REACTJS, NODEJS, NEXTJS, EXPRESSJS, LOOPBACK, TYPESCRIPT, JAVASCRIPT, AWS)

- Book publishing and reading platform with **200,000** monthly active users.
- Scalability optimization for **React** and **Node.js**.
- Localization for **22** languages via separate subdomains using i18next.
- Achieved load time reduction from 7s to 100ms with SSR and SSG in **Next.js**.
- Integrated **React-konva** for book cover template design and customization.
- Optimized backend APIs for faster data retrieval.
- Implemented **MongoDB indexes** for improved database performance.
- Enhanced search performance by implementing MongoDB text indexing, enabling efficient and optimized search functionality within the platform.
- Implemented **caching** mechanisms utilizing **Redis** and **node-cache**, enhancing system performance and reducing response times by storing frequently accessed data.
- Developed a robust **coupon system** for handling discounts and cashbacks, providing users with incentives and promotions while ensuring seamless transaction processing and accurate discount application.
- Employed code splitting for smaller initial bundle sizes.
- Utilized memoization techniques for efficient rendering.
- Implemented lazy loading and Suspense for dynamic loading.

Virtual barcode distribution (VBD): (REACTJS, NODEJS, EXPRESSJS, TYPESCRIPT, JAVASCRIPT)

- Developed a confidential ticketing platform using **React.js** for the frontend and **Express.js** for the backend, ensuring robust functionality and security.
- Implemented **WebSocket** technology to provide real-time event status updates, enhancing user engagement and experience.
- Developed a feature to generate rotating barcodes for tickets, enhancing security measures and preventing fraudulent activities.
- Integrated **react-pwa** to enable offline ticket saving functionality, ensuring seamless access to tickets even in the absence of an internet connection.
- Actively participated in weekly client meetings, facilitating effective communication and providing updates on project progress, as well as engaging in discussions to address any challenges and propose solutions.
- Optimized **bundle size** to enhance application performance and scalability, ensuring smooth handling of traffic during peak times.
- Utilized **Node.js clusters** to reduce downtime and handle failure requests efficiently, improving overall system reliability and stability.

Nirmalya Labs Pvt. Ltd: (6 months)
Govt. Of Odisha Water Resource Project: (REACTJS, NODEJS, EXPRESSJS)

- Developed **React.js** and **Node.js** solutions for Odisha government project
- Ensured efficiency and customization to project requirements
- Maintained clear and concise documentation for codebase and project architecture

## PERSONAL PROFILE:
Result-oriented professional offering nearly 3 years of experience in web development, exploring opportunities in REACTJS and NODEJS with an organisation of repute.

## EDUCATION:
MCA from BPUT, Odisha in 2021

## CORE COMPETAENCIES:
Front end development,
Back end development

## TECHNICAL SKILLS:

- **FRONT END DEVELOPMENT|** React js • Next.js • Redux • HTML • CSS • JAVASCRIPT • TYPESCRIPT
- **BACK END DEVELOPMENT|** Node js • Nest.js • Express js • Loopback
- **DATABASE|** MongoDB
- **MISCELLANEOUS|** Amazon AWS • Git • CICD • Electron JS • Network Sniffing • Data Scrapping • Chrome Extension

## SOFT SKILLS:

- Problem solving
- Leadership
- Communicator
- Planner
- Analytical

## PERSONAL DETAILS:

- Date of birth:14/01/1997
- Languages known: English, Hindi, Odia

## PERSONAL PROJECTS:
Web Translator (JAVASCRIPT, NODEJS, EXPRESSJS)

- Developed a Google web translator clone using Bhasini AI APIs.
- Implemented functionality for easy installation on any website using a script src tag.
- Enabled users to select any language, translating the entire web page seamlessly and caching translated page for faster load.

H&MDesigns (REACTJS, NODEJS, EXPRESSJS, MONGODB)

- A jewelry ecommerce website in which prices are dynamically calculated by using current material (gold, silver, diamond) weight, carat, price etc.
- Integrated shipping APIs for live order tracking.
- Implemented Razorpay payment gateway for secure transactions.
- Utilized caching for faster loading of products and pages.
- Developed an admin panel for centralized website control.