Sahedul Islam Rony

Full Stack Developer

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Portfolio | **LinkedIn** | **GitHub**

PROFESSIONAL SUMMARY

Full Stack Developer with proven expertise in building and deploying modern, full-stack web applications using Next.js, Node.js, and TypeScript. Experienced in creating responsive, user-centric interfaces with a focus on performance, scalability, and engaging user experiences. Proficient in both frontend and backend development, including database management with PostgreSQL and MongoDB, and cloud deployment on platforms like Azure , DigitalOcean. Combines a strong foundation in computer science with a passion for rapidly mastering new technologies to build production-ready web solutions.

TECHNICAL SKILLS

- **Programming Languages** : JavaScript | TypeScript | Python | C++
- **Frontend Technologies** : React.js | Next.js | Redux Toolkit | Context API | Tailwind CSS | shadcn/ui | Motion
- **Backend Technologies** : Node.js | Express.js
- **Databases & ORM** : PostgreSQL | MongoDB | Prisma
- **Backend as Service** : Firebase | Supabase
- **Cloud & DevOps** : Heroku | Vercel | Netlify | Azure | DigitalOcean | Git | GitHub

PROFESSIONAL PROJECTS

❖ **Modern Course Management System |** **Live Site** **|** **GitHub**

A free and open-source, full-stack learning platform designed to help universities and educators create, manage, and deliver online courses.

- Architected and developed a full-stack application using Next.js and TypeScript for the frontend, and a robust Node.js/Express.js RESTful API for the backend.
- Designed and implemented a scalable PostgreSQL database, hosted on **Azure**, to manage complex relationships between users, courses, and enrollments.
- Built a sleek, modern, and fully responsive user interface with shadcn/ui and Tailwind CSS, enhancing the user experience with fluid animations using Framer Motion.
- Managed complex application state on the client-side using a combination of Redux Toolkit for global state and Context API for localized state.

➢ **Technology Used**: Next.js, TypeScript, Node.js, Express.js, PostgreSQL, Azure, Redux, Context API, shadcn/ui, Framer Motion, Tailwind CSS

❖ **Interactive Digital Whiteboard |** **Live Site** **|** **GitHub**

A modern, feature-rich digital whiteboard application.

- Developed a high-performance, interactive canvas using Next.js 15, React 19, and Konva.js, enabling real-time drawing, shape creation, and text editing**.**
- Engineered a comprehensive set of drawing tools (pen, eraser, shapes, text) with extensive customization options for colors, strokes etc.
- Implemented a robust export module allowing users to save their work as PNG, JPEG, SVG, or PDF, utilizing libraries like jsPDF and html2canvas for high-quality rendering.
- Built a responsive and modern UI with Tailwind CSS , ensuring a seamless experience across all devices.

➢ **Technology Used:** Next.js 15, React 19, TypeScript, Konva.js, Tailwind CSS, jsPDF.

❖ **Anonymous Message Platform |** **Live Site** **|** **GitHub**

A secure, multi-instance platform for anonymous user feedback and messaging.

- Implemented asymmetric RSA encryption to generate key pairs, ensuring all messages are transmitted and stored securely.
- Developed a full suite of user-centric features including Google authentication via Firebase, message/account deletion, username management, and temporary link deactivation for enhanced user control.

- Built a modern, responsive UI with SCSS and managed application-wide state with Redux for a seamless user experience, with navigation handled by React Router.
- **Technology Used:** React.js, Redux, React Router, SCSS, Firebase (Authentication & Realtime Database), RSA Encryption, Vite.

❖ **Google Keep Clone |** [Live Site](#) **|** [GitHub](#)
A feature-rich, full-stack note-taking application inspired by Google Keep.
- Developed a responsive user interface with React.js and SCSS, enabling users to perform full CRUD (Create, Read, Update, Delete) operations on notes.
- Implemented multi-provider user authentication (Google, Facebook, GitHub, Twitter) using Firebase Authentication for secure and flexible login options.
- Managed application state and data flow efficiently using the Context API to handle note data and user sessions.
- Ensured seamless navigation and a smooth, single-page application experience by implementing React Router DOM.
- **Technology Used:** React.js, SCSS, Firebase, Context API, React Router

EDUCATION

B.Sc. in Computer Science and Engineering (2023 – Present)
Jessore University of Science and Technology, Jashore, Bangladesh

HONORS & AWARDS

Second Runner Up, Junior Category (Feb 2024)
JUST ACM LABORATORY Farewell Contest
Issued by the Department of CSE, Jashore University of Science and Technology.