

DHRUV RAJAK

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Education

Indian Institute of Information Technology Lucknow

Bachelor of Technology in Computer Science Engineering

Nov 2020 – May 2024

Lucknow, Uttar Pradesh

Skills

Languages: C++, JavaScript, TypeScript, HTML, CSS, Bash

Front End: ReactJS, React Native, Expo NextJS, Tailwind, Zustand

Back End: NodeJS, REST-API, Mongoose, MySQL, AWS Lambda, AWS DynamoDB, tRPC, Redis/MemodyDB

version Control: Git/GitHub

Design Softwares: Figma

Developer Tools: VS Code, Postman, MongoDB, Amazon Web Services(AWS), RevenueCat

Experience

BharatBrainz by Vyas Edification

Jan 2024 – current

Full-Stack Developer (2 YOE)

Remote

- Developed robust features for the [BharatBrainz App](#) and [Classroomz](#) including weekly report generation and mailing, Similar Question Generation, AI Helper workflow, course Completion progress, classroom utilities etc..
- Reduced page-load time on screens by 80%(Flashlight metrics) using efficient caching methods, optimizing images, minimizing re-renders and configuring FlatLists.
- Contributed to the development of a pipeline system to facilitate the upload of custom questions(50k+) and QuestionSets(10k+) by multiple uploaders(200+), incorporating functionalities for review and finalization of questions and papers, slashing administrative load by 50%.
- Leveraged AI to automate multiple context-rich features (QuestionSet/Question/Solution generation, weak area recommendation) .
- Implemented numerous bug fixes in API-fetch and query mechanisms to decrease retrieval times, minimize costs, and eliminate redundancies, reducing AWS cost by 28% for the year (as of DEC 2025).
- Shipped [vED website](#) for selling Courses with best SEO practices & account management in 2 weeks.

Faxify by ConstAgility

Dec 2023 – Feb 2024

Full-Stack Freelancer

Remote

- Contributed to the development of the Faxify Web-app, integrating features such as drag-and-drop uploading of faxes and their delivery.
- Implemented significant bug fixes, including updating packages to the latest versions, PDF compression, image manipulation, and converting files to PDF to streamline fax sending and reduce resource costs.

Projects

📁 **Library Management System** | *ReactJS, NodeJS, NextJS, Express, MongoDB, JWT*

November 2023

- Implemented token-based user authentication using JSON Web Tokens (JWT) for admins and users, enhancing security and ensuring secure access.
- Integrated both client-side and server-side form validation techniques during login and signup processes, contributing to an improved user experience and heightened security.
- Devised small algorithms for efficient book management, addressing scenarios such as book borrowing, availability checks, and user borrowal tracking. Designed a user-friendly catalog interface for browsing books and created an admin panel for streamlined user and book management.

📁 **CobaltDocs - privacy focused document manager** | *React Native, Zustand, SQLite, Encryption*

October 2025

- Developed a secure document management mobile app with document listing, card-based UI, and categorized semantic-search, improving document access efficiency.
- Implemented AES-based file encryption/decryption, master key generation, and secure local storage for 100% on-device data protection.
- Built an end-to-end document capture flow (camera → edit → encrypt → save) covering 4-step upload pipeline (with photo editing & filter pipeline).
- Designed SQLite-based local database with automated schema initialization for persistent and secure storage.