

Bigyan Darshan Patel

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Work Experience

Full Stack Developer at Learnduke (Remote)

January 2023 - Present

- Developed a dynamic MERN-based social feed with likes, comments, shares. Engineered collapsible comment stacks for seamless discussions. Implemented re-post functionality and a backend algorithm for trending post spaces based on engagement metrics. Enhanced site loading speed by incorporating **progressive image loading techniques**.
 - Implemented an efficient Node.js file system with enhanced security measures, incorporating image compression that led to a **150% improvement in site loading speed** while enhancing overall performance and data storage security.
 - Proficient in **crafting complex and efficient Mongoose aggregation queries**, adept at optimizing database performance and developing intricate APIs. Implemented **JWT-based authentication systems** for robust security.
 - Created interactive Q&A and Study documents platform enabling users to post queries with image uploads, categorized answers, and personalized content recommendations. Implemented a **custom text editor** for answers and articles providing users with comprehensive formatting options, fostering a more engaging and user-friendly experience.
 - Developed **real-time student-teacher interaction systems**, enabling live doubt submissions and facilitating doubt resolution sessions with integrated transaction systems. Utilized **PhonePe payment gateway** for real-time payments.
 - Integrated **Jitsi for seamless one-to-one video conferencing**, incorporating controls, screen sharing, and ensuring a smooth user experience. Implemented modifications on a **self-hosted Jitsi server** for enhanced functionality.
 - Engineered **in-app and push notification systems** for effective communication and real-time updates everywhere.
 - Developed **custom creatable selectors**, enabling user profile customization and personalized experiences. Implemented a **profile completeness feature** to remind users to complete their profile details for a tailored interaction.
 - Developed **admin dashboards** for efficient data management and engineered **field merging functionalities**.
 - Proficient in deploying Node.js and Next.js apps to AWS-hosted Nginx servers via SSH. Experienced in **creating scripts for automated deployments** and utilizing **CI/CD pipelines through GitLab**.

Personal Projects

- **SimplyKart (React, Tailwind, Razorpay, Redux)** [Source Code] [Demo]
An e-commerce platform for books with category-based shopping, wishlist, kart, address checkout, and coupon functionality. Integrated Razorpay for payments.
 - **SimplyTube (React, Tailwind, Redux)** [Source Code] [Demo]
A video streaming platform offering book summaries. Allows users to create playlists, save videos, like content, and watch videos on dedicated pages.
 - **SimplyUI (HTML, CSS)** [Source Code] [Demo]
A custom component library providing fundamental components essential for kickstarting web app development, complete with code snippets.

Skills

Programming Languages: JavaScript (Node.js), HTML, CSS **Frameworks/Libraries:** React.js, Express.js, Next.js, Tailwind CSS, Material UI **Database Management:** MongoDB **Version Control:** Git (GitLab, Gitea, Github) **Deployment and Server Management:** AWS, Linux (Nginx), SSH **Web Technologies:** RESTful APIs, WebSocket(Socket.io), JWT Authentication, Google Analytics, Google Ads **Development Tools:** Visual Studio Code, Postman **Others:** CI/CD Pipelines, Mongoose, Progressive Web Apps (PWA), Push Notifications (Firebase Cloud Messaging)

Education

- Bachelor of Technology in Mechanical Engineering
Indira Gandhi Institute of Technology, Sarang 2018 - 2022 CGPA: 7.54
 - Higher Secondary (12th Grade)
Jawahar Navodaya Vidyalaya, Sambalpur 2018 Percentage: 77.5%
 - Secondary School (10th Grade)
Jawahar Navodaya Vidyalaya, Sambalpur 2016 Percentage: 91.3%