SANDHYA YADAV

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Linkedin | Sandhya Yadav | Full Stack Software Engineer(JS)

SOFTWARE DEVELOPER

Dedicated software developer with almost two years of hands-on experience in developing, maintaining, and improving enterprise web applications using React and Node. Demonstrated capability in creating new features, designing systems, modules from scratch and effective troubleshooting using technologies like HTML, CSS, Express, Next.js, Material-UI, PostgreSQL and MongoDB. Known for exceptional problem-solving and analytical skills, combined with excellent communication and teamwork abilities. Passionate about leveraging technical expertise to drive project success and contribute to team goals in a dynamic and collaborative environment.

Performance Management • Feature Integration • Security • UI/UX Design • Database Management •Version Control • Web Development Methodologies • Test-Driven Development (TDD) • Continuous Integration/Continuous Deployment (CI/CD)

Languages: JavaScript, Typescript, Java, Python
Web: React, HTML, CSS, Next.js, Node.js, Nest.js, Spring Boot, Ethers.js, Redux Toolkit, Context
Web Services/Servers: RESTful API, SOAP, Apache, Nginx
CI/CD: Docker, Github Actions
Frameworks: Express, Angular, Material UI, Bootstrap, Tailwind CSS, SCSS
Databases: PostgreSQL, MongoDB, MySQL, Prisma ORM, TypeORM, Sequelize
Design Patterns: Decorator, Singleton, Observer
SDLC: Agile, Scrum, JIRA
Tools: Eclipse, VS code, WebStorm, IntelliJ IDEA, Postman, React/Redux Developer Tools, Cypress, Jest, Jasmine
Platforms and Cloud: Windows, AWS services

PROFESSIONAL EXPERIENCE

CAREER NOTE: *Completed on-campus studies and currently taking distance education courses to complete a* **Master's Degree in Computer Science** *(Available for full-time, W-2 employment).*

FUSEMACHINES, Kathmandu, Nepal • 02/2023 – 10/2023
AI consulting and service company specializing in AI and ML solutions

Software Engineer Associate
- Assisted senior frontend developers sharing workload, implementing frontend logic to meet deadline
- Created tables and stepper components using React forms, client-side storage, and React Redux, optimizing data display and reducing loading time by 15%
- Executed NX monorepo migrations via comprehensive research and CLI command setup, boosting team efficiency by 20% and accelerating project delivery by handling transport formats including JSON/REST.
- Developed dynamic forms with React Hook Form, integrating custom validation and async data fetching, reducing errors by 30% and increasing submission rates by 25%
- Engineered a mobile-web app for attendance and food coupon distribution with TypeORM and PostgreSQL, improving backend reliability and reducing manual errors by 30% through extensive Jest testing
- Created a mobile app using Expo and integrated push notifications with React Native and Firebase Cloud Messaging, aiding the company in RND for future works with the technology

- Mastered and implemented NestJS to develop a daily balance feature for an employee food coupon system, enhancing budget allocation efficiency for over 350 employees

Technologies Used: ReactJS, Typescript, NestJS, PostgreSQL, TypeORM, NX, Styled-components, Expo, Auth0, Axios, Bootstrap, SCSS, JSON, RESTful API

RUMSAN, Kathmandu, Nepal • 11/2022 – 01/2023

An IT solution company specializing in blockchain technology making web and mobile applications tailored for social service and financial transparency

Full Stack Developer Intern
- Integrated live server event data retrieval using Express, Node.js, Prisma, and PostgreSQL, increasing data retrieval speed by 20% and enhancing event display.
- Engineered a secure login and blood donation tracking system with blockchain technology via Ethers.js, ensuring data integrity and encryption compliance.
- Enhanced the donor app with PWA features, optimizing offline accessibility and performance through service workers and caching, significantly improving user experience metrics.
- Developed UI components from scratch, incorporating statistical charts and Material UI for event details, boosting interactivity by 15%.
- Refactored and updated entity structures during the React.js to Next.js app conversion, implementing server-side rendering and reducing page loading time by 33%.
- Gathered client requirements and implemented secure storage of cryptographic wallet mnemonics on Google Drive, improving recovery reliability and enhancing user experience.

Technologies Used: ReactJS, NodeJS, PostgreSQL, Axios, EthersJS, NextJS, Material UI, Prisma, Render

TEJ FELLOWSHIP, Kupondole, Nepal • 06/2022 – 01/2023

A social venture platform to train enthusiastic, passionate and hardworking individuals for their IT journey

Full Stack Developer (Fellow)
- Gained hands-on experience in behavioral and technical skills for the IT field.
- Implemented React.js for front-end development, gaining proficiency in building interactive user interfaces and enhancing the performance of the in-house system features.
- Acquired knowledge and hands-on experience in full tech stack, including Node.js, Express.js, MongoDB/PostgreSQL, and RESTful APIs.
- Participated in the entire software development lifecycle, from conceptualization to deployment, to gain practical insights into real-world application development.
- Gained practical insights in troubleshooting and debugging issues and learned to analyze and resolve technical challenges efficiently.
- Explored deployment strategies and platforms such as Heroku, CI-CD pipeline to understand the deployment process and ensure smooth application deployment.

Technologies Used: React, SCSS, REST API, Redux, Heroku, PostgreSQL, NodeJS, Express,Axios, MongoDB

RELEVANT PROJECTS

Maharishi International University (2024)
- **E-commerce:** Developed a mini online market project for managing products, orders, and reviews with seamless admin, seller, and buyer interactions. Enhanced UX using Tailwind CSS and React form validation. Used Spring Boot, React.js, React Redux, JWT, RESTful APIs, and MySQL.

- **Tasker:** Developed a mini task management tool like Jira. Implemented UI with PrimeNG, and features like login, signup, and task management using Angular reactive forms. Managed backend with REST APIs, integrating seamlessly with the frontend. Used Angular, Node.js, Express.js, MongoDB, and PrimeNG.

- **News Portal:** Developed a news portal with Editor and Manager roles for article CRUD operations. Contributed to UI design, editor interface implementation, and API design for password recovery and data management using Cloudinary. Used Next.js, TypeScript, Node.js, PostgreSQL, React Quill, Express, Axios, Multer, Nodemailer.

EDUCATION

Master of Science in Computer Science (MSCS)
(In progress via distance education; expected completion 06/2026)
Maharishi International University, Fairfield, Iowa

Key Courses: Web Programming, Modern Web Applications, Algorithms, Web Application Architecture

Bachelors in Electronics and Communication Engineering (BEX)
Advanced College of Engineering and Management, Kupondole, Nepal (2019)

CERTIFICATIONS

Full Stack Open, University of Helsinki online course Javascript based web development
Python Course, Sudreeshya Academy