SANDHYA YADAV

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FULL STACK DEVELOPER

A full stack software developer with 4+ years of experience in designing and implementing user-centric web applications using ReactJS and NodeJS. Proven expertise in translating design specifications into responsive layouts, developing and optimizing RESTful backend APIs, and ensuring seamless integration for efficient data display. Skilled in all phases of the software development life cycle (SDLC), including design, coding, and deployment, with a strong focus on creating high-performance, scalable solutions. Proficient in MERN stack, Github, and AWS services.

PROFESSIONAL EXPERIENCE

Software Engineer Associate   **Feb 2023 - Oct 2023**
FUSEMACHINES   *Kathmandu, Nepal*

- Implemented dynamic forms using React Hook Form with custom validation and async data fetching, achieving a 30% reduction in submission errors and a 25% increase in submission rates
- Saved time of 11 employees daily by setting up NX monorepo for migration and seeding database for enhanced development efficiency by 30%
- Bootstrapped a mobile app using Expo and NestJS, improving backend reliability and reducing manual errors by 30% for 350+ employees

Full Stack Developer   **Nov 2022 - Jan 2023**
RUMSAN   *Kathmandu, Nepal*

- Refactored a ReactJS app to NextJS, implementing server-side rendering that reduced page loading time by 35%, while enhancing the UI with Material UI and statistical charts, improving interactivity by 15%
- Engineered a secure login and blood donation tracking system with blockchain technology via EthersJS, ensuring data integrity and compliance with encryption standards
- Optimized live data retrieval and offline accessibility and performance by 20% through the integration of Express, NodeJS, Prisma, and PostgreSQL, enhancing real-time event display and system performance

Full Stack Developer   **Jun 2022 - Jan 2023**
TEJ FELLOWSHIP   *Kathmandu, Nepal*

- Led and supported team of 3 through debugging, testing, and deployment, ensuring individual and team success, meeting deadline and web application development requirements
- Acquired hands-on experience with full stack technologies including ReactJS, NodeJS, Express, RESTful APIs, MongoDB/PostgreSQL, and developed an e-commerce project in 20 days
- Participated in the complete software development lifecycle, from conceptualization to deployment, gaining deep insights into real-world application development and delivering projects on time

Backend Software Developer   **Oct 2019 - May 2022**
BYTES N CHIPS SOFTWARE   *Kathmandu, Nepal*

- Utilized NumPy and R to preprocess and clean client datasets, handling missing values and outliers to transform data into suitable formats for database entity shaping, ensuring reliability for application development
- Participated in team discussion and coordinating in the resolution of multiple technical issues, while gaining hands-on experience in software development, deployment, and testing
- Collaborated with senior developers to design and implement backend services and APIs using Java's Spring Boot, delivering client-based key features to enhance system functionality

PROJECTS

E-commerce **Jun 2024**

- Developed a mini online market project for managing products, orders, and reviews with seamless admin, seller, and buyer interactions and validations React form
- **Used**: Spring Boot, ReactJS, React Redux, JWT, RESTful APIs, Tailwind CSS, and MySQL

Tasker **Mar 2024**

- Developed a mini task management tool like Jira with features like login, signup, and task management using Angular reactive forms, backend with RESTful APIs, and seamless frontend integration
- **Used**: Angular, NodeJS, Express, RESTful APIs, MongoDB, JWT, and PrimeNG

EDUCATION

Master of Science in Computer Science, MSCS Maharishi International University, *Fairfield, Iowa*

Bachelors in Electronics and Communication Engineering, BEX Advanced College of Engineering And Management, *Kathmandu, Nepal*

SKILLS

- **Languages:** JavaScript, Typescript, Python, Java
- **Frameworks/Library/UI:** HTML, CSS, MaterialUI, Bootstrap, Spring Boot, TailwindCSS, ReactJS, NextJS, NodeJS, NestJS, Express, Angular, SCSS, Django, FastAPI, EthersJS
- **Databases and ORMs:** PostgreSQL, MongoDB, MySQL, Prisma, Sequelize, TypeORM, Hibernate
- **CI/CD**: Docker, Github, AWS services
- **Others:** Eclipse, VS code, React/ Redux Developer Tools, Postman, IntelliJ IDEA, Cypress, Jest, Jasmine, Agile, JIRA, Scrum

CERTIFICATIONS

- **Full Stack Open** University of Helsinki - *Online* **5 months**
- **Python** Sudreeshya Academy **6 months**