SANDESH SHAHI
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FRONT END DEVELOPER

Front-End Web Developer with over 2 years of experience building scalable, high-performance web applications using JavaScript, React.js and Next.js. Contributed to developing SaaS platforms and enterprise applications in the technology and travel & hospitality industries, enhancing usability, responsiveness, and system efficiency. Expertise in UI/UX design, front-end development, and performance optimization within Agile environments, ensuring seamless collaboration between design and backend teams. Proficient in Tailwind CSS, Material UI, and Redux Toolkit, with a strong focus on maintainable and scalable front-end architectures. Excellent communication, strong teamwork, allow me to thrive in collaborative environments, adapt to challenges, and deliver high-quality solutions.

• UI/UX Design • State Management • API Integration & RESTful Services • Authentication & Authorization
• Performance Optimization • Version Control • Responsive Design • Testing & Debugging • Accessibility

Languages: JavaScript
Web: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Material UI, Bootstrap
Web Services: RESTful APIs
Frameworks: NodeJs, React library, Next.js, Tailwind, Material UI
Databases: MySql, DynamoDB
Design Patterns: Component-Driven Development, MVC (Model-View-Controller), Singleton, Modular Design
SDLC: Agile Methodologies, Scrum
Tools: Visual Studio Code, Postman, Git, GitHub, CI/CD Pipelines
Platforms: Windows, macOS, Linux

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).*

SIMRIK DIGITAL MARKETING PVT. LTD, Kathmandu, Nepal • 09/2023 – 07/2024
Specialize in providing innovative brand, marketing, and IT solutions to help businesses achieve their goals.

Front-end Engineer
Build responsive, interactive web applications using React
- Developed responsive and interactive user interfaces using React.js and SCSS, improving overall performance and usability, leading to a significant increase in user engagement, resulting in higher customer retention.
- Enhanced form validation and user input handling by leveraging React Hook Form and Yup, reducing validation-related errors by 40%, streamlining the data entry process, enhancing the accuracy of collected data.
- Integrated and optimized RESTful API interactions by collaborating closely with backend developers, reducing API response times were 30%, ensuring a seamless and responsive user experience.
- Designed and implemented dynamic dashboards featuring real-time data visualization using React.js and charting libraries, improving data accessibility and decision-making for business users by providing up-to-date insights and interactive reports.
- Refactored and optimized the front-end codebase, increasing component reusability and reducing the overall bundle size by 25%, improving application load times, maintainability, and a more scalable architecture.
- Strengthened authentication and authorization mechanisms for both admin and client portals by implementing Next.js and REST API-based security measures, ensuring data protection and security.

Technologies Used: *JavaScript, React.js library, Bootstrap, GitHub, Postman, Visual Studio Code, Redux Toolkit, React Router Dom, React Hook Form, Yup, Axios, React Date Picker.*

PULAMIZ TECHNOLOGY PVT. LTD, Kathmandu, Nepal • 01/2022 – 08/2023
Web Development, Mobile Application, Custom Application Development and Software Company in Nepal.

React.js Developer
Build responsive, interactive web applications using React.
- Designed and architected scalable project structures, conducting pre-development analysis to optimize performance and maintainability, ensuring seamless future scalability and ease of updates.

- Developed reusable and optimized React components, reducing unnecessary re-renders by 35%, improving application efficiency and overall responsiveness.
- Created responsive and visually engaging user interfaces using Next.js, Tailwind CSS, and Material UI, ensuring cross-device compatibility, web accessibility, and SEO optimization, while adhering to global HTML standards.
- Integrated RESTful APIs efficiently, collaborating closely with backend developers to design and optimize data fetching strategies, reducing load times by 40% and improving system performance.
- Implemented advanced form validation and error handling using React Hook Form and Yup, enhancing user input accuracy and reducing validation-related issues by 40%.
- Developed dynamic dashboards, authentication pages, and admin/client portals with secure authentication and authorization using Next.js, Tailwind, and REST APIs, ensuring a seamless, consistent, and engaging user experience.

Technologies Used: *JavaScript, Next.js framework, Material UI / Tailwind, GitHub, Postman, Visual Studio Code, Redux Toolkit, React Router Dom, React Hook Form, Yup, Axios, React Date Picker, Iconify, Google Map React, React Elastic Carousel, React Facebook Login, React Google Login.*

ACADEMIC PROJECTS

Maharishi International University (2024)
- **Order Management System:** The Order Management System (OMS) is a Spring Boot-based microservices-driven application designed to manage food ordering, restaurant menus, and user authentication efficiently. This system enables users to register, browse restaurants, place orders, and track them while allowing restaurant owners to manage their menus and process orders. Utilized Spring Boot (Spring Web, Spring Security, JPA), JDBC, MySQL, H2 Database, JWT Authentication, Artemis messaging service, Swagger UI.

- **Serverless Authentication System with Image Upload:** This project is a serverless authentication system designed to provide a seamless signup, login, and profile image upload experience. Users can register with their email, password, and name, and then log in to the application. After successful authentication, users can upload, preview, and update their profile images. The system is built using ReactJS and backend using Node.js. The application is deployed using serverless architecture for scalability, cost-efficiency, and easy maintenance. Additionally, the project includes CloudFormation template (YAML) to automate the provisioning of AWS resources and AWS CodePipeline to enable continuous integration and deployment (CI/CD) for both the frontend and backend. Utilized ReactJS, Node.js, Deployment Frontend (AWS S3, CloudFront), Deployment Backend (AWS Lambda and API Gateway), DynamoDB, AWS CloudFormation (YAML), AWS CodePipeline.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 04/2027)
Maharishi International University, Fairfield, Iowa

Key Courses: Enterprise Application, Cloud Computing, Web Application Programming, Algorithms

Bachelor of Engineering in Computer Engineering
Tribhuvan University, Dharan, Nepal (04/2022)