

Ranish Raj Shrestha

Chandragiri-09, Kathmandu
+977 9840800899 | [Email](#) | [LinkedIn](#) | [Website](#) | [Github](#)

ABOUT ME

Frontend Developer with 2+ years of experience in React and modern JavaScript, with working knowledge of backend concepts (REST APIs, basic Django/Python) and Linux environments. Experienced in building scalable, performance-focused web applications.

EDUCATION

Bachelor's degree in Computer Engineering **2017 - 2022**
Acme Engineering College, Kathmandu, Nepal

- **Major Project:** Developed a web-based Hospital Management System with Electronic Medical Records (EMR) using PHP, HTML, JavaScript, and Bootstrap, enabling efficient management of patient data, appointments, and medical records.
- **Minor Project:** Built a responsive house rental management web application using PHP, HTML, JavaScript, and Bootstrap, enabling efficient handling of property listings, tenant data, and rental transactions.

Higher Secondary Education (+2) **2014 - 2017**
VS Niketan College, Kathmandu, Nepal

TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), HTML, CSS, Python (Basic), C++ (Basic)
- **Frontend Development:** React.js, Next.js, Tailwind CSS, Bootstrap, Material UI (MUI)
- **State Data Management:** Redux Toolkit, React Query (TanStack Query), Axios
- **Backend (Basic):** Django REST Framework, REST API Integration
- **Tools & Technologies:** Git, GitHub, Postman, Docker (Basic), ESLint, Prettier, Husky, lint-staged
- **Mapping & Visualization:** Mapbox GL JS, Mapbox Studio
- **Systems:** Linux (CLI, basic system operations), Windows

PROFESSIONAL EXPERIENCE

Frontend Developer (React) **Jul 2024 - Present**
Youth Innovation Lab, Baluwatar, Kathmandu, Nepal

- Built and deployed scalable web applications using React with a focus on performance, maintainability, and clean architecture.
- Managed application state using Redux Toolkit and handled API integrations with Axios.
- Developed responsive and accessible user interfaces using Material UI (MUI) and dynamic forms with React Hook Form.
- Applied performance optimization techniques such as lazy loading, code splitting, and memoization.
- Gained basic backend exposure using Python and worked with REST API concepts to support frontend integrations.
- Collaborated with cross-functional teams and maintained code quality through Git version control and peer reviews.

Electronics Circuit Designer

Apr 2023 - Jun 2024

Entegra Sources Pvt. Ltd, Baneshwor, Kathmandu, Nepal

- Designed and simulated electrical circuits using Proteus for embedded and IoT-based applications.
- Developed IoT systems integrating sensors and microcontrollers for real-time data acquisition.
- Streamlined data flow from embedded devices to web applications for monitoring and visualization.
- Collaborated on end-to-end system design, from hardware schematics to software interfaces.
- Bridged embedded systems with web technologies to build intelligent, connected solutions.

Web Developer Intern

Jul 2020 - Nov 2020

Mediflow Solution Pvt. Ltd, Kathmandu, Nepal

- Contributed to web application development using JavaScript, HTML, and CSS for medical record systems.
- Handled data integration and retrieval using basic SQL queries for patient and clinic modules.
- Assisted in dynamically displaying medical data on the frontend to improve accessibility and usability.

ACADEMIC & RESEARCH PROJECTS

United States Youth Council (USYC)

- Developed a responsive, mobile-friendly website using React and Tailwind CSS.
- Focused on clean UI design, reusable components, and performance optimization.
- Link: <https://www.usycn.org/>

National Platform for Disaster Risk Reduction (NPDRR)

- Built reusable React components using Tailwind CSS and Redux Toolkit.
- Integrated APIs for dynamic content and developed fully responsive pages.
- Ensured modularity, accessibility, and consistency across the application.
- Link: <https://npdrr.bipad.gov.np/>

HEAT AI

- Developed multilingual and responsive interfaces using React, Tailwind CSS, and Redux Toolkit.
- Integrated Mapbox for geospatial visualization and built custom hooks for dynamic rendering.
- Focused on performance optimization and clean component architecture.
- Link: <https://heatai.org/>

Creators Mela

- Built responsive event pages using React and Tailwind CSS.
- Optimized performance and improved user navigation experience.
- Link: <https://usembassynepal.events/>

NDRRMA (National Disaster Risk Reduction & Management Authority)

- Maintained and improved an existing React-based application for stability and performance.
- Debugged critical issues and enhanced UI consistency and user experience.
- Ensured cross-device compatibility and compliance with government standards.
- Link: <https://ndrrma.gov.np/np>

Bipad Portal

- Refactored legacy class-based components into modern functional components using React Hooks.
- Optimized data-heavy dashboards and implemented geospatial data visualizations.
- Supported national-level disaster monitoring through performance-focused UI improvements.
- Link: <https://bipadportal.gov.np/>

TagMe

- Developed interactive UI modules and complex form handling for crowdsourced data collection.
- Built reusable components using React and Tailwind CSS for consistent design.
- *Link:* <https://tagme.yilab.org.np/>

Youth Innovation Lab

- Established frontend architecture and best practices for new projects.
- Built and maintained the main organizational website with focus on performance and SEO.
- Ensured accessibility and scalability for international users.
- *Link:* <https://youthinnovationlab.org/>

INTERPERSONAL SKILLS

- **Core Strengths:** Strong analytical mindset, problem-solving ability, adaptability to new technologies, attention to detail, and focus on writing clean and maintainable code.
- **Communication:** Effective communicator with experience collaborating in cross-functional teams, including designers, developers, and stakeholders.
- **Leadership:** Supported junior developers and contributed to frontend architecture decisions in multiple projects.