

Shushovan Shakya

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Professional Summary

Frontend and Web Developer with 4+ years of experience delivering high-performance, scalable web applications using React, TypeScript, and modern frontend technologies. Expert in frontend architecture, state management, and optimizing performance for data-intensive and visualization-heavy platforms. Skilled in REST API integration, interactive data visualizations, and agile workflows. M.Sc. in Software Systems, Germany.

Technical Skills

- **Frontend Development:** HTML5, CSS3, SCSS, JavaScript (ES6+), TypeScript, React.js, Next.js
- **Modern Web Standards:** Component-based UI development, responsive design, browser APIs, maintainable and future-proof frontend architectures
- **Testing & Code Quality:** Automated testing concepts (unit, integration, end-to-end), experience with Jest-like testing tools, code reviews and quality-driven development
- **State Management:** Redux, Redux-Saga
- **API Integration:** RESTful APIs, frontend-backend integration, data-driven UI development
- **Tooling & CI/CD:** Git, GitLab CI, Docker, CI/CD pipelines, ESLint, Webpack
- **Data Visualization & Advanced UI:** D3.js, Three.js, WebGL (used selectively with focus on performance and usability)
- **Ways of Working:** Agile Development (Scrum, Kanban), cross-functional collaboration with UX/UI designers, product managers, and backend developers

Work Experience

Web Developer — MA Industrie GmbH

Oct 2023 – Present

Geretsried, Germany

- Delivered a production-grade 3D web platform using Three.js and WebGL, enabling real-time interactive shape creation and visualization for end-users.
- Built customizable geometry tools with editable outlines, streamlining user-driven content workflows and reducing design iteration time.
- Integrated Python-based image outline detection services, automating shape generation and improving visual accuracy by minimizing manual corrections.
- Containerized the full application stack using Docker, improving deployment consistency, scaling efficiency, and CI/CD reliability across environments.
- Optimized rendering performance and application responsiveness, ensuring smooth interaction across devices and browsers and reducing lag for complex scenes.

Frontend React Developer — NAXA Pvt. Ltd.

Dec 2020 – Sep 2022

Kathmandu, Nepal

- Delivered a large-scale single-page application using React, Redux, Redux-Saga, Webpack, HTML, and CSS, supporting 1000+ daily active users with high performance and scalability.
- Built an administrative dashboard enabling authorized users to create, edit, and manage geospatial and tabular datasets, reducing manual data handling by 40% and saving over 15 hours per week.
- Designed and implemented interactive D3.js visualizations, improving insight generation and accelerating data-driven decisions across municipal datasets.
- Integrated OpenLayers for map-based visualization of infrastructure, resources, and risk data, enabling stakeholders to analyze spatial data efficiently.
- Led API integration with backend engineers, ensuring reliable data flow, system stability, and seamless connection to REST services.

- Optimized frontend performance for large datasets and data-intensive interactions, reducing page load times by 30% and improving user experience.

Education

M.Sc. International Software Systems Science

2022 – 2025

Otto-Friedrich-Universität Bamberg, Germany

- Focus areas: Distributed Systems, Software Architecture, Data Management, Machine Learning, Middleware, Service-Oriented Architecture.

B.Sc. Computer Science and Information Technology

2015 – 2019

Lumbini City College, Butwal, Nepal

- Coursework included Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Databases, Web Technologies, and System Design.

Languages

- English: C1
- German: A2 (actively improving)
- Nepali: Native
- Hindi: Fluent