

# Shushovan Shakya

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Date of birth: 26.07.1996 | Nationality: Nepalese

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## Professional Summary

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Frontend and Web Developer with 4+ years of experience building scalable, high-performance web applications using React, TypeScript, and modern frontend technologies. Strong expertise in frontend architecture, state management, and performance optimization for data-intensive and visualization-heavy platforms. Experienced in REST API integration and agile development environments. Currently completing an M.Sc. in Software Systems in Germany.

## Technical Skills

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- **Frontend Engineering:** React.js, Next.js, Vue.js, TypeScript, Angular, JavaScript (ES6+), HTML5, CSS3, Material UI, Webpack
- **State Management:** Redux, Redux-Saga
- **Data Visualization:** D3.js, Three.js, WebGL, OpenLayers
- **Backend & Integration:** Node.js, REST APIs
- **Tooling:** Git, GitLab CI, Docker, CI/CD, AWS (basic), ESLint
- **Methods:** Agile Development (Scrum, Kanban)

## Work Experience

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### Web Developer — MA Industrie GmbH

Oct 2023 – Present

Geretsried, Germany

- Architected and developed a production-grade 3D web platform using Three.js and WebGL, enabling real-time interactive shape creation and visualization.
- Designed and implemented customizable geometry tools with editable outlines to support user-driven content workflows.
- Integrated Python-based image outline detection services to enhance visual accuracy and automate shape generation.
- Containerized the full application stack using Docker, improving deployment consistency, scalability, and CI/CD reliability.
- Optimized rendering performance and application responsiveness to ensure smooth interaction across devices and browsers.

### Frontend React Developer — NAXA Pvt. Ltd.

Dec 2020 – Sep 2022

Kathmandu, Nepal

- Developed and maintained a large-scale single-page application using React, Redux, Redux-Saga, Webpack, HTML, and CSS.
- Built an administrative dashboard enabling authorized users to create, edit, and manage geospatial and tabular datasets.
- Implemented interactive data visualizations using D3.js to improve insight generation and data accessibility.
- Integrated OpenLayers for map-based visualization of municipal infrastructure, resources, and risk data.
- Collaborated closely with backend engineers to integrate REST APIs and ensure reliable data flow and system stability.
- Optimized frontend performance for large datasets and data-intensive user interactions.

## **Education**

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### **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**

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