

# Shushovan Shakya

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## Professional Summary

Frontend/Web Developer with 4+ years of experience building scalable, high-performance applications with React, TypeScript and modern web technologies. Strong in reusable component design, API integration, state management, performance optimization, and data/3D visualization. M.Sc. in Software Systems Science (Germany).

## Technical Skills

<b>Frontend:</b>	React, Next.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, SCSS
<b>State Management:</b>	Redux, Redux-Saga, React Hooks, Context API
<b>API Integration:</b>	RESTful APIs, async workflows, loading/error handling
<b>Testing &amp; Quality:</b>	Jest, React Testing Library, ESLint, Code Reviews
<b>Tooling &amp; DevOps:</b>	Git, GitLab CI, Docker, CI/CD, Webpack, Vite
<b>Visualization:</b>	D3.js, Three.js, WebGL, Interactive UI Rendering
<b>Ways of Working:</b>	Agile/Scrum, cross-functional teamwork with design + backend

## Work Experience

<b>Web Developer — MA Industrie GmbH</b> <i>Geretsried, Germany</i>	<b>Oct 2023 – Present</b>
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- Developed and maintained a high-performance **3D web platform** using **Three.js** and **WebGL** for real-time interactive shape creation and visualization.
- Implemented geometry editing features including **custom outlines** and **parametric shape manipulation**, improving usability and reducing iteration cycles.
- Integrated a Python-based computer vision workflow for **automatic outline detection from images**, enabling faster and more accurate shape generation.
- Worked closely with engineers and stakeholders to deliver **responsive UI workflows** across desktop/tablet, focusing on reliability and smooth interactions.
- Containerized services with **Docker** to ensure consistent environments and smoother deployments, improving developer productivity.
- Optimized rendering performance via efficient scene management and asset handling, reducing frame drops on complex visualizations.

<b>Frontend React Developer — NAXA Pvt. Ltd.</b> <i>Kathmandu, Nepal</i>	<b>Dec 2020 – Sep 2022</b>
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- Built and shipped scalable frontend applications using **React**, **TypeScript**, **Redux**, and **Redux-Saga**, supporting **1000+ daily active users**.
- Designed and implemented an administrative dashboard for managing large geospatial/tabular datasets, reducing manual workload by **40%**.
- Created reusable UI components and improved maintainability through consistent patterns and clean component APIs.
- Integrated REST APIs and implemented robust async handling (loading/error/empty states), improving reliability of data-heavy screens.
- Developed interactive analytics modules using **D3.js**, enabling users to explore insights through dynamic charts and reports.
- Implemented map-based visualization using **OpenLayers** to display infrastructure/resources/risk layers for spatial analysis use cases.

## Education

<b>M.Sc. International Software Systems Science</b> Otto-Friedrich-Universität Bamberg, Germany	<b>2022 – 2025</b>
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*Focus: Distributed Systems, Software Architecture, Data Management, Machine Learning, Middleware, Service-Oriented Architectures*

<b>B.Sc. Computer Science and Information Technology</b> Lumbini City College, Butwal, Nepal	<b>2015 – 2019</b>
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*Focus: Software Engineering, Algorithms, Database Systems, Computer Networks*

## Languages

English (C1) | German (A2) | Nepali (Native) | Hindi (Fluent)