

SUMAN SHRESTHA

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Experienced software engineer with a 5+ year track record of designing, developing, and deploying robust and scalable web applications. Proven expertise in requirements gathering, development, testing, debugging, troubleshooting, and deployment. Adept at collaborating effectively within cross-functional teams, consistently delivering high-quality solutions on time and within budget. Passionate about creating intuitive and user-friendly applications.

PROFESSIONAL EXPERIENCE

Bosch Rexroth [Schwieberdingen, Germany]

03/2024 – 02/2025

Software Engineer, Internship + Working Student

- Developed Angular components and upgraded the framework (v12 to v18) for enhanced performance and maintainability.
- Developed and maintained IoT device monitoring dashboards using Prometheus and Grafana.
- Optimized MongoDB queries, significantly improving database performance and efficiency.
- Architected and implemented an end-to-end IoT solution using MQTT, Azure Event Grid, and a device portal for data storage and analysis.
- Containerized applications with Docker, streamlining deployments and improving scalability.
- Delivered high-quality software through test-driven development, comprehensive testing, and proactive bug fixing.

Zepling IT Pvt. Ltd. [Nepal]

12/2018 – 08/2022

Software Engineer

- Created modern, single-page web applications in HTML, CSS, JavaScript, TypeScript, React, Next.js, and Redux that incorporated user-friendly responsive web applications.
- Developed and integrated RESTful APIs using Python, Node.js, Express.js, and MongoDB powering a high-performance web application; slashed response time by 40% and handled 10x more concurrent users.
- Optimized website performance by an average of 60%, reduced page load time by 40% and improved user interfaces (UI) and user experiences (UX).
- Designed microservices architecture and deployed cloud computing services using Docker and AWS to optimize systems for scalability, automation, and cost-efficiency.
- Coded reusable components to reduce code duplication and maintain code quality.
- Ensured continuous integration and deployment (CI/CD) processes using Git, GitHub, and GitHub Actions.

OLE Nepal, [Nepal]

06/2018 – 10/2018

Associate Software Developer

- Collaborated with designers to transform wireframes, prototypes, and modern user interfaces (UI) into responsive web applications using web technologies like HTML, CSS, JavaScript, React, and Figma.
- Engineered robust RESTful APIs utilizing Node.js, Express.js, MongoDB for seamless integration with a web application; optimized database queries resulting in a 50% reduction in API response time.
- Improved website loading time by 20%, increased website visits by 15%, and implemented a system to allow for consistent design and branding across all websites.
- Coordinated with Quality Assurance (QA) teams to conduct manual testing of web applications, identifying, and resolving bugs, performance issues, and usability problems for seamless user experience.
- Provided maintenance and technical support such as troubleshooting and bug fixing for existing systems.

EDUCATION

Hof University of Applied Sciences, Germany

10/2022 - Present

Course: Software Engineering for Industrial Applications (M.Eng.)

Advanced College of Engineering and Management, Nepal

11/2013 – 12/2017

Course: Bachelor of Computer Engineering

SKILLS & TOOLS

- HTML, CSS, SCSS
- JavaScript
- TypeScript
- React
- Next.js
- Angular
- Node.js
- Express.js
- Python
- WordPress
- MongoDB
- MySQL
- AWS, Azure
- Git
- GitHub, GitLab
- Linux, Windows, macOS

CERTIFICATIONS

- [AWS Academy Cloud Foundations](#)
- [Vue.js: Testing and Debugging](#)

LANGUAGES

- English (Fluent C1)
- German (Elementary A2)
- Nepali (Native)