SANJAYA SAPKOTA

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JAVA FULL STACK SOFTWARE ENGINEER

Experienced Software Engineer with 6+ years of proven success in building scalable web applications across diverse domains including Travel, Transport, HealthTech, EdTech, and AdTech. Led the architecture of multiple systems such as an advertising SaaS platform, fleet compliance system, lab report management tool, and an education search portal. Skilled in Agile methodologies, actively participated in design, development, testing and deployment within cross-functional teams. Strong expertise in Spring Boot, React.js, Next.js, and cloud platforms (AWS/GCP).

● SOLID Principles ● Problem Solving ● Data Structures ● Object Oriented Programming (OOP)
● Database Management ● Cloud Computing ● Agile Methodologies & Scrum ● Microservices ● RESTful APIs

Languages: Java, TypeScript, JavaScript
Web: HTML5, CSS3, ReactJs, Ant Design, Tailwind CSS, Bootstrap, AJAX
Web Services: REST API, SOAP, JSON Web Tokens (JWT), OAuth 2.0, CORS
Web/App Servers: Apache, Nginx, Tomcat, GlassFish
Frameworks: Spring Boot, NextJs
Databases: MySQL, PostgreSQL, MongoDB, DynamoDB, Redis
Design Patterns: Singleton, Observer, Proxy, Command Factory
SDLC: Agile Model, Scrum, Kanban, Waterfall Model, Prototyping
Tools: Maven, NPM, Yarn, Webpack, Babel, Vite, Docker, IntelliJ IDEA, NetBeans, VS Code, Figma, Jira, Trello
Platforms: Windows, Linux, MacOS, Amazon Web Services (EC2, S3, IAM, CloudFront, Lamda, SQS, SNS), Google Cloud Platform (Compute Engine, Pub/Sub, Cloud Storage)

PROFESSIONAL EXPERIENCE

*CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's of Science in Computer Science** (Available for full-time, W-2 employment).*

TVM MEDIA, Stockholm, Sweden ● 05/2023 – 10/2024
Digital advertising company connecting venues and advertisers via 6,000+ screens across the US and Sweden.

Sr. Full Stack Software Engineer
- Led the enhancement of core software solution features and APIs for TVM Play by optimizing response body and database queries contributing to a 71% decrease in API response times.
- Developed reusable libraries integrating RESTful services with business rules for TVM Play using ReactJs, improving system efficiency and reducing maintenance costs by 25%.
- Built a template editor for TVM Play using HTML Canvas API, React.js, and Fabric.js, leading to an 80% increase in editor usage.
- Streamlined cross-functional development processes by implementing feature requests pipeline and bug report flow for TVM Play and TVM Live, cutting defects by 25% and speeding up project delivery by 15%.
- Improved database queries, resulting in up to a 90% reduction in database call time by adding indexes and restructuring queries for TVM Play. Additionally, minimized API response size by up to 84%.
- Implemented best practices for application scalability for TVM Play by dividing the application into multiple microservices, resulting in a reduction in the memory footprint by 25%.
- Mentored junior engineers in React/Java best practices, reducing code review time by up to 30%.

Technologies Used: Java, Spring Boot, Hibernate, JavaScript, TypeScript, React.js, Next.js, MySQL, HTML5, CSS3.

WOLF MATRIX PVT. LTD., Lalitpur, Nepal ● 06/2021 – 06/2022
Nepal-based outsourcing firm building software for Australian clients in healthcare and transport sectors.

Full Stack Software Engineer
- Developed a responsive web app with ReactJS for real-time fleet tracking, boosting operational efficiency by 20% and enhancing driver engagement by 40% through a cross-platform mobile app built with React Native.
- Implemented secure REST APIs using PHP Symfony, integrating JWT and OAuth for authentication/authorization, along with real-time data updates and analytics, reducing costs by 15%.
- Improved web application performance by designing faster, more efficient web services using optimized database queries and enhancing code architecture resulting in 50% faster APIs.
- Enhanced system efficiency and user satisfaction by optimizing data structures which resolved complex software issues, and collaborated with stakeholders, improving system performance by 20% and user satisfaction by 35%.

- Created technical documentation including deployment checklists to ensure clear communication and shared understanding among stakeholders and team members reducing onboarding time by 20%.

Technologies Used: React.js, React Native, PHP Symphony, MySQL, AWS, HTML5, CSS3, Linux.

TOP NEPAL INTERNATIONAL PVT. LTD. , Kathmandu, Nepal ● 08/2020 – 06/2021
Digital agency offering software and content solutions, supporting government and NGO IT initiatives.

JavaScript Engineer
- Engineered SEO-friendly user interfaces using Next.js and React.js, resulting in a 60% improvement in page load speed and a 30% boost in search engine rankings.
- Optimized site architecture, by collaborating closely with back-end developers to restructure API requests, cutting load times by up to 50%.
- Integrated payment gateways (eSewa, connectIPS, IME Pay) for secure and efficient payments on e-commerce and service websites, improving payment latency by up to 30%.
- Collaborated with third-party service providers and clients for timely web service development and testing, improving client satisfaction rating by 20% and reducing project lead time by up to 15%.

Technologies Used: ReactJs, NextJs, Frontity, Javascript, HTML5, CSS3, Webpack, CICD.

INFINIA HUB PVT. LTD. (PERPLEX SOLUTIONS), Kathmandu, Nepal ● 09/2019 – 08/2020
A small startup based in Nepal, specializes in various domains including software development and digital marketing..

Software Engineer
- Optimized website performance by reducing HTTP requests, leveraging browser caching, and resolving code bottlenecks, resulting in a 40%-page speed improvement and a smoother user experience.
- Created user-friendly UI/UX designs with ReactJS and integrated them with the backend APIs for an intuitive and responsive user experience, which led to a 15% increase in customer engagement.
- Deployed a software solution on cloud services like AWS and Digital Ocean using a CICD pipeline, increasing the speed of deployment by 75%.

Technologies Used: ReactJs, Javascript, HTML5, CSS3, Webpack, CICD.

TEJ SOLUTIONS PVT. LTD, Kathmandu, Nepal ● 06/2018 – 09/2019
Specialized in modern flight booking systems to streamline ticketing and improve user experience.

Associate Software Engineer
- Enhanced User Experience by reducing user-reported errors by 15% through close collaboration with designers and QA engineers to better understand user needs and incorporate feedback from interviews and surveys.
- Optimized Website Performance by maintaining a Google Page Speed score of 90+ through file minification and compression, ensuring a seamless and fast user experience.
- Improved Project Delivery by refining functional requirement documents and guidelines, enabling clear and concise communication with stakeholders to ensure successful project execution.
- Increased User Engagement by 30% through the development of a responsive UI/UX using ReactJS, integrated with backend APIs in PHP and Spring Boot for efficient data exchange.

Technologies Used: Java, Spring Boot, Hibernate, JavaScript, TypeScript, ReactJS, MySQL, HTML5, CSS3.

ACADEMIC PROJECTS

Maharishi International University (2025)
Property Management System: Developed a role-based property management app with secure file storage via AWS S3, RESTful APIs in Spring Boot, and full CRUD for users and properties, enabling seamless admin, customer, and seller/renter interactions.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 06/2027)
Maharishi International University, Fairfield, Iowa

Key Courses: Web Application Architecture, Enterprise Architecture, Cloud Computing, Algorithms

Master of Science in Informatics
University West, Trollhattan, Sweden (06/2023)
Key Courses: Full Stack Developer, Advanced Project Methodology

Bachelor of Science with Honours in Computer Science and Software Engineering
University of Bedfordshire, Luton, United Kingdom (04/2021)