Hem Raj Sapkota

Senior Full Stack Engineer

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— Summary

A passionate Senior Full Stack Engineer with 10 years of experience in designing, developing, and deploying scalable, high-performance SaaS applications across e-commerce, traveling, healthcare, and various other domains. Demonstrates expertise in a wide range of technologies, including React/Next.js, TypeScript, Python/Django, Docker, and AWS, with a strong emphasis on modern web development practices such as React Hooks, GraphQL, and Web3 integration. Proven track record of leading development teams, achieving significant improvements in application performance and reliability, and implementing efficient CI/CD pipelines to streamline deployment processes. Committed to enhancing user experiences through meticulous testing and optimization strategies, while fostering Agile methodologies to drive project success and innovation.

— Experience

DevelopX / Senior Full Stack Engineer

Jan 2023 – Feb 2024 (1 year 2 months), Hamburg, Germany · Hybrid

- Spearheaded the creation and deployment of a cutting-edge e-commerce platform as a SaaS solution, leveraging React/Next.js, TypeScript for the front end, and Python and Django for the backend, with deployment on AWS.

- Utilized Docker for containerization, enhancing scalability and reliability.

- Architected and implemented a comprehensive OAuth2.0 authentication mechanism with enhanced security features including Multi-Factor Authentication (MFA) and Role-Based Access Control (RBAC).

- Elevated test coverage to 90% through meticulous unit and integration testing with Jest, drastically minimizing production defects.

- Boosted web performance by 30% by optimizing React hooks (useMemo, useCallback) and React Query's useQuery caching.

- Developed and optimized CI/CD workflows with CircleCI and Jenkins, halving deployment times and automating the build, test, and deployment lifecycle.

- Integrated Web3 features for enhanced Ethereum blockchain interactions, contributing to a modern, decentralized application experience.

- Championed Agile methodologies, leading sprint planning, and backlog refinement sessions to streamline project deliverables and priorities.

Skill: React.js | Next.js | TypeScript | Python | Django | Docker | AWS | OAuth2.0 | Jest | CI/CD | CircleCI | Jenkins | Web3 | Ethereum | Agile Scrum Methodologies

Denologix, Inc. / Senior Full Stack Engineer

Jun 2019 - Dec 2022 3 years 7 months), Toronto, Ontario, Canada · Remote

- Led the development and launch of innovative traveling applications, deploying on AWS with a microservices architecture to ensure scalability and maintainability.

- Adopted a tech stack that includes React.js, Next.js, TypeScript, and D3.js for dynamic data visualization, enhancing state management with Redux-Saga, React-Query, and the Context API, and employing Tailwind CSS for design precision.

- Achieved a 20% improvement in request processing by implementing GraphQL for a more flexible and scalable API architecture.

- Reduced bug incidence by 25% through comprehensive Jest and Mocha testing of React components and Django APIs.

- Leveraged Google PageSpeed Insights and Lighthouse to boost app performance, employing strategies like asset minimization and browser caching.

- Designed a Redis-based distributed caching strategy, cutting database load by 70% and significantly increasing responsiveness.

- Implemented efficient CI/CD pipelines with CircleCI and Jenkins, reducing deployment times by 50% and ensuring reliable, automated processes.

Skill: React.js | Next.js | TypeScript | D3.js | Redux-Saga | Context API | Tailwind CSS | Python | Django | GraphQL | Jest | Mocha | Google PageSpeed Insights | Lighthouse | Redis | CI/CD | CircleCI | Jenkins | AWS | Microservices

Tongdun Technology / Full Stack Developer
Feb 2016 - May 2019 (3 years 4 months), Singapore · On-site

- Developed and deployed responsive, scalable SaaS healthcare applications on AWS, using React/Next.js and Docker for streamlined maintenance.

- Utilized TSX syntax and functional programming to craft efficient, reusable UI components, cutting development time and speeding up feature delivery.

- Excelled in front-end testing with Jest and Enzyme, driving continuous code quality improvements.

- Implemented Redux for state management, doubling data retrieval efficiency and boosting application performance.

- Applied performance optimization techniques like memoization, code splitting, and lazy loading for superior component rendering and user experience.

- Containerized services with Docker for deployment to AWS ECR, enhancing application scalability and robustness.

- Collaborated with business analysts to ensure web development aligned with business goals and user requirements.

Skill: React.js | Next.js | Python | Django | TypeScript | TSX | Functional Programming | Jest | Enzyme | Redux | Docker | AWS | AWS ECR | Business Analysis

Athena Dynamics Pte Ltd / Full Stack Developer
Nov 2014 - Jan 2016 (1 years 3 months), Singapore, Singapore · Hybrid

- Played a key role in the development of diverse web and mobile applications for sales, marketing, social media, and CMS, delivering versatile technology solutions.

- Led the refactoring of a major React application to adopt Redux and React Hooks, simplifying state management and improving maintainability.

- Transitioned React JSX class components to modern TSX functional

components with hooks, adhering to the latest React standards.

- Advocated for test-driven development (TDD), significantly enhancing code quality and reducing post-deployment bugs by 25%.

- Fostered cross-functional collaboration with developers to ensure seamless integration of various system components, including wallets and block explorers.

Skill: React.js | Python | Redux | React Hooks | TSX | TDD | Jest | Cross-Functional Collaboration | Blockchain | Wallets | Block Explorers

— Education

Nanyang Technological University Singapore
Apr 2010 - Oct 2014, Singapore

Bachelor of Science in Computer Science
- Graduated with honors and a GPA of 3.8/4.0.

- Completed courses in web development, database systems, software engineering, and cloud computing.

- Worked on several web projects using HTML, CSS, JavaScript, PHP, and MySQL.

- Participated in hackathons and coding competitions and won several awards.