**Anish Subedi**

**Software Engineer**

**JavaScript | TypeScript | React | Node | SQL | MongoDB | AWS**

**SUMMARY**

Accomplished Software Engineer with over 6 years of progressive experience in developing scalable, high-performance web applications and robust backend systems.

Proficient in full-stack development, specializing in React, Redux, Node.js, and TypeScript, with a strong command of modern software development practices including MVC, asynchronous programming, and state management. Proven track record of leading cross-functional teams, mentoring junior developers, and implementing best practices for code quality and security. Adept at designing and optimizing RESTful APIs, ensuring adherence to OWASP standards, and deploying applications on AWS infrastructure. Demonstrated ability to deliver complex projects ahead of schedule, boost application performance, and create visually captivating user interfaces. Skilled in cooperating with stakeholders to gather requirements and produce comprehensive technical documentation, facilitating seamless project execution and delivery.

**PROFESSIONAL EXPERIENCE**

**AgileSoft Inc, Norcross, Georgia, US Nov 2023 – Present**

**Software Engineer**

* Applied latest software development approaches including model view controller (MVC), event-driven applications using Object-Oriented JavaScript, and JSON.
* Designed and implemented Node REST API, ensured adherence to industry standards for efficiency, and scalability.
* Capitalized asynchronous programming for efficient file processing, error handling, for system stability, reliability.
* Supervised design and implementation of system architecture for client projects, including API development and creating UML diagrams; assured clear and efficient project workflows.
* Excelled in techniques such as callbacks, Promises, and async/await to efficiently lead non-blocking I/O operations.
* Championed state management with Redux or Context API, ensuring predictable data flow; Centralized state applications.
* Mitigated unnecessary re-rendering across multiple components, honing performance, increasing better user experience.

**Environment:** React, Typescript, Redux, HTML5, CSS3, Node, Express, REST APIs, MongoDB

**Incyree Inc, Skillman, New Jersey, US May 2022 – Oct 2023**

**Software Engineer**

* Mentored team members in React, and Redux, serving as go-to resource for debugging complex issues, accomplished new features, and applied React hooks, Redux and Context API to heighten application functionality.
* Managed cross-functional teams to redesign and optimize customer portal; Incorporated React for front-end development.
* Spearheaded the creation of dynamic, responsive websites utilizing cutting-edge technologies such as React.js and Bootstrap, ensuring optimal performance and visual appeal on desktops, tablets, and smartphones.
* Built highly scalable, maintainable backend with Node and TypeScript. Employed modular architecture, dependency injection to enforce SOLID principles and facilitate efficient unit testing for organized codebase.
* Established authentication and authorization using Passport.js and JWT tokens for securing Node.js applications.
* Architected secure RESTful payment gateway using Stripe, enabling smooth acceptance of recurring monthly and one-time payments. Exploited webhooks to capture real-time payment events, ensuring efficient processing and improved experience.
* Strengthened Node.js/Express RESTful APIs with middleware to enforce Top OWASP best practices for authentication, logging, and error handling; safeguards against cybersecurity threats and validated robust application functionality.
* Partnered with stakeholders to understand requirements, producing comprehensive technical documentation (UML and class diagrams, test cases, and system architecture) to facilitate clear communication and collaboration between teams.
* Initiated adoption of TypeScript within development team, harnessing its static typing capabilities to strengthen code quality, detect errors in early stages of development, and improve overall maintainability of codebase.
* Perfected SQL queries, schemas and database, achieving sub-100ms API response times by efficient query design, Redis caching, and stored procedures.
* Safeguarded web applications against common vulnerabilities, including SQL injection, XSS, CSRF, and unauthorized access, thereby bolstering overall security posture of system.
* Deployed and handled applications on AWS infrastructure, leveraging VPCs, Bastion hosts, CI/ CD for protected and automated deployments.

**Environment:** React, Redux, Node, Express, Nest, OWASP, TypeScript, Redis, SQL, MongoDB, Jest, S3, EC2, VPC, AWS

**Stevens Institute of Technology, Hoboken, New Jersey, US Sep 2021 – Apr 2022**

**Graduate Assistant (Web developer)**

* Partnered with 4 cross functional teams on web-based student portal of 3000 students; adjusted website design using built in tools, HTML5 and CSS3 for critical front end and backend development project.
* Utilized CSS grid layout, flex, media queries, and Bootstrap to amplify page attractiveness.
* Conducted organizational, remuneration redesigns and identified operational bottlenecks, igniting performance by 25%; Migrated to Cloud based infrastructure for growing users.
* Overhauled web-based content management system based on framework to assist data processing and increase efficiency to upload content; reduced processing time by over 20 percentage.
* Ensured Browser Compatibility by rigorously testing each web application on popular web browsers.
* Engineered and curated a reusable component library, significantly accelerating development efficiency and supervising consistency across diverse projects.

**Environment:** Full stack – Internal Tools, HTML, CSS, Cloud

**Algocraft, Kathmandu, Nepal Apr 2021 – Aug 2021**

**Lead Software Engineer**

* Delivered initial React/Redux prototype for a financial web application to handle large data sets using libraries; High charts and D3. Launched V1 30% ahead of schedule.
* Executed best practices for highly maintainable codebase, applying advanced React concepts; Memo, code splitting, React Lazy, and Suspense. Reduced render time for page by 25%.
* Calibrated efficient data caching mechanism in Redux, decreasing API calls by 40%.
* Engineered visually captivating, interactive data visualizations with High charts and D3.js, enriching user interfaces with dynamic and insightful graphics.
* Mastered debugging techniques in React applications, employing browser developer tools, React DevTools, and console logging to swiftly identify and resolve issues, ensuring optimal performance and functionality.
* Administered AWS S3 buckets to securely store and retrieve data, enacting policies and lifecycle rules to optimize storage costs and enforced data integrity.
* Collaborated with backend developers to integrate RESTful APIs, ensuring seamless data exchange and functionality.

**Environment:** React, Redux, Node, D3, High Charts, Material-UI, Webpack, Babel, Python, Git, AWS

**Socioexp, Kathmandu, Nepal Oct 2019 – Mar 2021**

**Co-Founder/CTO**

* Developed location-based social networking platform enabling users nearby with shared interests to connect, organize meetups, teamed up on events. Spearheaded secure user authentication and real-time chat features (Express, WebSocket).
* Developed and maintained dynamic single-page applications (SPAs) with React and Redux, significantly improving performance and user experience.
* Added storage and retrieval of user-entered data using HTML5 session storage, empowering users to seamlessly manage multiple sessions concurrently.
* Designed and integrated RESTful APIs and GraphQL endpoints to streamline data fetching and enhance state management.
* Collaborated with team members for specifications, translating designs and wireframes into reliable codes; developed web applications, maintaining code quality and automatization by identifying and fixing 98% bugs.
* Orchestrated seamless deployments by establishing Amazon S3 for storing application artifacts and Amazon EC2.

**Environment:** React, Node, Express, Redux, Sockets, Git, S3, AWS, MongoDB, Webpack, Babel

**Tekkon Technologies, Kathmandu, Nepal Mar 2018 – Sep 2019**

**Software Engineer**

* Mastered React JS components, Forms, Events, Keys, Router, Redux, Animations, and Flux concepts, specializing in crafting interactive UIs through One-way data flow, Virtual DOM, JSX, and React Native principles.
* Pioneered user-friendly forms in React, programmed controlled components and form libraries such React Hook Form to manage state and validation seamlessly, enhancing user experience and ensuring data integrity.
* Incorporated robust error handling using try-catch blocks and HTTP status codes to gracefully handle exceptions, provide informative error messages to users, and sustain application stability.
* Constructed the backend infrastructure actuating Express JS and incorporated the Axios NPM package to retrieve results from multiple search APIs for Financial Web application.
* Partnered with UX/UI designers to create user-friendly, responsive, and accessible interfaces, adhering to WCAG 2.1 standards.

**Environment:** React, Redux, Node, Express, React Native, SQL, MongoDB, AWS, GraphQL

**SKILLS**

**Frontend:** React js, Next js, Redux, React Native, JavaScript, ES6, HTML, CSS, React hooks, Context API, Ant Design, React Router, Reselect, Jest, Material UI, Tailwind CSS

**Backend:** Node, Express, Nest, REST, GraphQL, Microservices, Middleware, Redis, Kafka, Python, Go, Java, Spring, Spring Boot, LLM, MongoDB, SQL, MySQL, Sequelize, CORS, SQL injection, XSS, Sockets, Web hooks, Git

**Cloud and Infra:** AWS, EC2, S3, Docker, Kubernetes, ECS, EKS, VPC, Jenkins, CI/CD, Terraform, GCP, Gateways, Load Balancer

**EDUCATION**

**Stevens Institute of Technology, Hoboken, New Jersey, US**

Master of Science in Computer Science

**Tribhuvan University, Kathmandu, Nepal**

Bachelor of Engineering in Computer Engineering