**Kasun** **Thennakoon**

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**Frontend Engineer**

Experienced Frontend Engineer with expertise in JavaScript, ReactJS, Java, Kubernetes and Web Technologies, complemented by a strong background in API Design, API management. An Open-Source enthusiast. I am passionate about creating exceptional user experiences. Key skills include:

**Technical Skills**

**Programming Languages**

JavaScript | Typescript | Python | HTML5 | CSS3 | Java | PHP | Ruby

**Front-end**

ReactJS | NextJS | Cypress | Styled-components | Redux | Microfrontends | Accessibility | WCAG | Figma | Material-UI

**Back-end**

NodeJS | ExpressJS | NextJS | Python Flask | Python Django | Firebase | AWS EC2 | Kubernetes

**API Management**

RESTful APIs | GraphQL | OpenAPI / Swagger | Async API | WSO2 API Manager (Core developer)

**Testing & Code Quality**

Jest | Cypress | React Testing Library | Git | Enzyme | Playwright | ESLint | Prettier | Lighthouse

**Application Security**

OpenID | JWT | CORS | OAuth2 | OWASP | Content Security Policy

**EDUCATION**

**BSc (Honors) in Information Technology**

University of Moratuwa, Sri Lanka

**Physical Science, Mathematics**

Royal College, Colombo, Sri Lanka

**CAREER EXPERIENCE**

**Amazon Web Services**, Toronto, Canada **March 2023-June 2023**

**Front-end Engineer**

* Worked as a front-end engineer of the SNS (Simple Notification Service) team.
* Integrated the Prettier code formatter to the SNS web console, enhancing efficiency in code reviews and ensuring consistent code styling.
* Added a set of End-to-End tests using AWS CloudWatch Synthetics for the Simple Notification Service to verify the functionality in the Edit subscription flow in the SNS console.
* Fixed customer reported bugs in the SNS console’s web application.

**WSO2,** Colombo, Sri Lanka **November 2021-March 2023**

**Technical Lead**

* Initiated and led the development of a new console web application for the SaaS platform Choreo.dev, which considerably improved performance, accessibility, internationalization, and interactivity.
* Developed a SPA authentication architecture by implementing the OAuth PKCE extension flow, resulting in significantly enhanced security and performance improvement.
* Developed an OpenAPI-based auto-mocking service that extends the Mock Service Worker for front-end test automation. This service enhances the developer experience and confidence in the test suite.
* simplified the state management architecture in the Choreo SPA console by using context and reducer hooks, thereby replacing some of the Redux usages.
* Developed a design system based on Material-UI that enhanced the developer experience and ensured consistent product UI across the entire application.

**WSO2,** Colombo, Sri Lanka **July 2019-October 2021**

**Associate Technical Lead**

* Improved the initial loading time and performance of the Choreo portal by utilizing Webpack's dynamic imports and React's lazy loading techniques to chunk the JS bundles.
* Integrated the Cypress library, configured Azure Pipelines, and developed end-to-end test cases, resulting in a significant improvement in reliability and overall developer experience. Composed Backend for Frontend micro-services utilizing control plain APIs, significantly enhancing centralized governance of APIs used in the frontend web app.
* Developed a React (Typescript) SDK to communicate with product REST APIs, enabling efficient data retrieval and manipulation.
* Improved the static files and JS bundles caching by incorporating Webpack's chunk hashes and content hashing mechanisms, which eliminates the occurrence of stale content for users.

**WSO2**, Colombo, Sri Lanka  **February 2018-June 2019**

**Senior Software Engineer**

* Developed an authentication and authorization framework for ReactJS web portals using OAuth 2.0's Authorization Code Grant flow, eliminating the need for an authentication proxy.
* Volunteered to integrate Algolia search into the product documentation portal and maintained it, improving site reach and enhancing document search user experience.
* As an on-site consultant, I provided guidance to customers on the implementation and use of the WSO2 API Manager product, addressing their API management and identity and access management requirements.
* Utilized Lighthouse and Axe tools to enhance the web console accessibility standard and ensure compliance with WCAG 2.0. As a result, it successfully attracted public sector customers to the product.
* Developed an Apache JAX-RS interceptor to provide authentication functionality for REST APIs.

**WSO2**, Colombo, Sri Lanka **January 2016-January 2018**

**Software Engineer**

* Designed and developed workflow support for Enterprise Store in WSO2 Governance Registry.
* Developed a new web portal for the WSO2 API Manager product using ReactJS. The implementation substantially improved the user experience and maintainability of the web portal.
* Implemented configuration and setup of a ReactJS-based Single Page Application (SPA) from scratch, utilizing essential tools such as Webpack, Babel, and ESLint.