

## Kasun Thennakoon

Toronto, ON | +16474661920 | [tmkasun@gmail.com](mailto:tmkasun@gmail.com)

[LinkedIn:// tmkasun](#) | [GitHub:// tmkasun](#) | Twitter:// [@tmkasun](#)

### Frontend Engineer

Experienced Frontend Engineer with expertise in JavaScript, ReactJS, 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

#### Front-end

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

#### Back-end

NodeJS | ExpressJS | NextJS | Python Flask | Firebase | AWS SNS | 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 | Puppeteer

#### Application Security

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

### EDUCATION

#### BSc (Honors) in Information Technology

University of Moratuwa, Sri Lanka

([WES Verified Academic Qualification](#))

#### 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.
- Added a set of End-to-End tests using AWS CloudWatch Synthetics for the Simple Notification Service console test suite.
- Resolved customer-reported bug in the React-based web application of the SNS console, enhancing user experience and ensuring seamless functionality
- Integrated the Prettier code formatter to the SNS web console.

**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.
- 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 improvement in reliability and overall developer experience.
- Composed Backend for Frontend micro-services utilizing control plain APIs, Reducing the re-work on API implementation.
- 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.