

## KASUN THENNAKON

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### SOFTWARE ENGINEER

Experienced Frontend Engineer specializing in ReactJS, REST APIs, API management, and open-source development. Collaborative and dedicated to delivering scalable solutions. Passionate about creating exceptional user experiences. Key skills include:

Programming | Software Development | Web Development | Testing  
Leadership | Quality Assurance

### TECHNICAL SKILLS

#### Programming Languages

JavaScript | Typescript | Python | HTML5 | CSS3 | Java | C++ | Ruby

#### Front-end

ReactJS | NextJS | Leaflet | Styled-components | Redux | Accessibility | WCAG | HTTP/2 | Material-UI

#### Back-end

ExpressJS | NestJS | Python Flask | Python Django | Firebase | AWS EC2

#### 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

#### Application Security

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

### CAREER EXPERIENCE

**Amazon Web Services**, Toronto, Canada

**March 2023-Current**

#### Front-end Engineer

- Worked as a front-end engineer of the SNS (Simple Notification Service) team.
- Added a set of integration tests using CloudWatch Synthetics.
- Fixed customer reported bugs in the SNS console's web application.

**WSO2**, Colombo, Sri Lanka

**November 2021-March 2023**

#### Technical Lead

- Initiated and drove the development of a new console web application for the SaaS platform Choreo.dev, which significantly improved performance, accessibility, internationalization, and interactivity.
- 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.
- Developed a SPA authentication architecture by implementing the OAuth PKCE extension flow, resulting in significantly enhanced security and a performance boost of about 50% which was measured Chrome Performance reports
- Designed and developed a simple state management mechanism using context and reducer hooks for Choreo SPA application, resulting in a significant improvement in user experience.

- Developed a design system based on Material-UI that significantly 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 SPA performance by incorporating optimization techniques such as lazy loading, strong compression, memorization.
- 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.
- Implemented a React application architecture that adhered to the logical separation of Pages, Components, Modules, Layouts, and Data.

**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, 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 significantly 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.

**EDUCATION**

**BSc (Honors) in Information Technology**

University of Moratuwa, Sri Lanka

**Physical Science, Mathematics**

Royal College, Colombo, Sri Lanka