**KASUN THENNAKOON**

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**SOFTWARE ENGINEER**

Experienced Software Engineer with a Strong Background in Developing Enterprise-Grade, High-Performance Web Applications, Combined with in-depth knowledge of RESTful APIs. Coming from a culture of open-source development, I bring a collaborative and innovative approach to software engineering. Key skills include:

Programming | Software Development | Implementation | 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 | Progressive Web Apps

**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-April 2023**

**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**

* I 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 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.
* I 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