**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 bugs in the SNS console’s web application.

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

**Technical Lead**

* I spearheaded the development of a new console web application for the SaaS platform Choreo.dev, which significantly improved performance, accessibility, internationalization, and interactivity.
* I 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.
* Revamped the SPA authentication architecture by implementing the OAuth PKCE extension flow, resulting in significantly enhanced security and a performance boost of over 50%.
* 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.

**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.
* Implemented a message-passing mechanism using RxJS.
* I deployed composite microservices using the Choreo control plane API gateway to centralize frontend API access.
* Developed a React (Typescript) SDK to communicate with product REST APIs, enabling efficient data retrieval and manipulation.

**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.
* Authored developer-level product documentation and integrated Algolia search plugin and Google Analytics into the documentation portal, 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.
* 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.

**Open-Source CONTRIBUTIONS**

**Disk Wizard for Amahi Home Server**

**Google Summer of Code (Intern)**

**Technologies** Ruby on Rails, JavaScript, Linux, Shell-script **April 2014-August 2014**

**EDUCATION**

**BSc (Honors) in Information Technology**

University of Moratuwa, Sri Lanka

**Physical Science, Mathematics**

Royal College, Colombo, Sri Lanka