KASUN THENNAKOON

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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.
- Integrated the Prettier code formatter to the SNS web console, enhancing efficiency in code reviews and ensuring consistent code styling.
- 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