

Kasun Thennakoon

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EDUCATION

University of Moratuwa
BSc(HONORS) IN INFORMATION
TECHNOLOGY
GPA: 3.36 / 4.2
Oct 2011-Jan 2016
SriLanka

Royal College
PHYSICAL SCIENCE, MATHEMATICS
2002-2009
Colombo, SriLanka

LINKS

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

COURSEWORK

Graduate

Semantic Web and Ontological Modelling
Human Computer Interaction
High Performance Computing
Machine Learning & Pattern Recognition
Theory of Programming Languages
Natural Language Processing
Theory of Compilers
Complex Systems & Agent Technology
Automata Theory

SKILLS

Programming

Languages:
Javascript • Typescript • Python • HTML5 •
CSS • Java • C++ • PHP

Front-end:

ReactJS • NextJS • JSS • Styled
Components • Storybook • Webpack •
HTTP/2 • Progressive Web Apps

Back-end:

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

API Management:

RESTful APIs • OAuth2 • GraphQL • Open
API / Swagger • Async API • WSO2 API
Manager (Core developer)

Testing & Code Quality:

Jest • Cypress • React Testing Library •
Enzyme • Playwright • ESLint

Application Security:

• OpenID Connect • JWT • CORS

EXPERIENCE

Front-end Engineer | AMAZON WEB SERVICES

6th March 2023 - 26th April 2023 | Toronto, Canada (Laid off due to company restructuring)

- Worked as a frontend engineer of the SNS (Simple Notification Service) team.

Technical Lead | WSO2

1st November 2021 - 10th March 2023 | Colombo, SriLanka

- Led the architecture and development of the Choreo SPA portal.
- Researched and developed an OpenAPI-based auto mocking service for front-end test automation.
- Improved the SPA authentication architecture using OAuth PKCE extension flow.
- Designed & Developed a simple state management mechanism for Choreo SPA application using context and reducer hooks

Associate Technical Lead | WSO2

1st July 2019 - 31st October 2021 | Colombo, SriLanka

- Improved SPA performance by 40% incorporating several optimization techniques such as lazy loading, strong compression, memoization.
- Implemented an end-to-end (E2E) testing strategy using Cypress.
- Implemented a message-passing mechanism using RxJS.
- Developed a React(Typescript) SDK to communicate with product REST APIs, enabling efficient data retrieval and manipulation.

Senior Software Engineer | WSO2

1st February 2018 - 30th June 2019 | Colombo, SriLanka

- Designed and developed an Authentication and Authorization framework for ReactJS web portals based on OAuth 2.0 Authorization code grant flow.
- Write developer-level product documentation and help to enhance the documentation for the product documentation team.
- Provided on-site consultation for the deployment, configuration, and customization of the API Manager product, addressing the customer's API Management and Identity and Access Management requirements.
- Developed an Apache JAX-RS interceptor to provide authentication functionality for REST APIs

Software Engineer | WSO2

1st January 2016 - 31st January 2018 | Colombo, SriLanka

- Design and develop workflow support for Enterprise Store in WSO2 Governance Registry.
- Design and develop a new Single Page Web Application for the API Manager 3.0 product using the ReactJS library ecosystem.
- Collect and document the system requirements for WSO2 API Manager 3.0 product.
- 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

Google Summer of Code | MENTOR

2017 | Remote

Environment Support for API Manager