

# 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

6<sup>th</sup> March 2023 - 26<sup>th</sup> 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

1<sup>st</sup> November 2021 - 10<sup>th</sup> 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

1<sup>st</sup> July 2019 - 31<sup>st</sup> October 2021 | Colombo, SriLanka

- Improved SPA performance by incorporating various 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

1<sup>st</sup> February 2018 - 30<sup>th</sup> 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

1<sup>st</sup> January 2016 - 31<sup>st</sup> 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