



# Kasun Prabashwara

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## About Me

An individual who is passionate about programming, web based systems, mobile applications and 3D animations.

## Skills

- Programming Languages:** Python | Java | JavaScript | Kotlin | C++ | C# | C | Zig
- Technical Fields:** Full Stack Development | Mobile Applications | Machine Learning |
- Databases:** MySQL | Postgres | Firebase
- Tools & Services:** Git | IntelliJ IDEA | VS code | Kaggle
- Frameworks:** React | Spring Boot | Jetpack Compose | Unity

## Highlights

- Bashaway 23:** 3rd place | Developed solutions and automated various tasks with Bash scripting.
- SLRC 2022:** Finalist | Created robot to solve the given maze and other challenges
- Dean's List:** Selected for dean's list in semester 1,3 and 5
- Director board of UOM Drama club:** Member of drama club director board of 2023.
- Sports:** Cricket | Badminton

## Education

BSc Eng Hons, Computer Science & Engineering

University of Moratuwa

2021 - Present

CGPA : 3.76

Royal College Colombo 7

2011 - 2019

- G.C.E A/L 2019: 3A Passes (Physical Science Stream) | Island Rank : 16
- G.C.E O/L 2016: 9 A Passes

## Experience

GTN Tech

2023 Nov - 2024 May

Software Engineering Intern

- Worked as a part of a team on migrating an old .NET application to modern web based architecture with React and Spring Boot with GraphQL.
- Created React micro frontend for order execution displays and migrated the old backend to spring boot with GraphQL. Then implemented sorting and filtering of orders
- Implemented report generation frontend and backend using JasperReports and Postgres procedures.
- Enhanced the compatibility between PostgreSQL procedures and the backend with custom data structures and transformers.

## Projects

Automated multi currency forex trading with Reinforcement Learning (Ongoing)

2024 May - Present

- Developing an automated trading algorithm using machine learning to maximize profit while trading between multiple currency pairs.
- Tech Stack :** Tianshou | Python | MetaTrader 5

Augmented Reality Mobile Application for CSE Hit the Ground 2024

2024 Dec

- AR puzzle game that allowed players to interact with the physical environment at the CSE hit the ground event.
- Tech Stack :** Unity | Firebase

Chatbot Assistant for Agile Development

2024 Sep

- Built a RAG model with OpenAI embeddings to deliver agile insights.
- Tech Stack :** Python | OpenAI | Langchain

Hotel & Restaurant MIS: Web and Mobile based hotel/ restaurant managing system

2023 May - 2023 Nov

- This system provides functionalities such as room booking, table booking, order management.
- Developed as a website and 3 native android applications
- Tech Stack :** React | Android Studio | Firebase

Supply Chain Management System

2022 Jun- 2022 Dec

- This web application automates the complete supply chain management process through MySQL functions and triggers.
- Tech Stack :** MySQL | React | Docker

Pintos User Program Implementation

2022 Jun- 2022 Dec

- Added the functionality of running user programs in pintos, managing threads, system calls and concurrency.
- Tech Stack :** QEMU | C