

KASUN PRABASHWARA

COMPUTER SCIENCE & ENGINEERING STUDENT



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/portfolio/

SKILLS

- Programming Languages**
Python | Java | JavaScript | Kotlin
C++ | C# | C | Zig
- Technical Fields**
Full Stack Development | Mobile
Applications | Machine Learning
- Databases**
MySQL | PostgreSQL | Firebase
- Web Development**
HTML | CSS | Tailwind CSS | React
| GraphQL
- Tools & Services**
Git | IntelliJ IDEA | Android Studio |
VS Code | Kaggle | Blender |
Jupyter
- Frameworks**
Next.js | Spring Boot | Jetpack
Compose | Unity

ABOUT ME

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

EDUCATION

BSc Eng Hons, Computer Science & Engineering 2021 - PRESENT
University of Moratuwa
GPA: 3.78/ 4.0

Royal College Colombo 7 2011 - 2019

- G.C.E A/L 2019: 3A Passes(Mathematics) | Island Rank : 16 |
Z-Score : 2.93
- G.C.E O/L 2016: 9 A Passes

EXPERIENCE

GTN Tech (Pvt) Ltd 2023 NOV - 2024 MAY
Intern Software Engineer

- 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. Reinforcement learning and LSTM based feature extractors are used to optimize the action selection.
- Tech Stack** : Stable Baselines 3 | Python | MetaTrader 5

Personal Portfolio Site 2025 JAN

- Created to broaden my React.js knowledge and to provide a unique and memorable experience for the user.
- Tech Stack** : Next.js | Firebase

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 the Dean's List in semesters 1, 3, 5, and 7.
- **Director board of UOM Drama club:** Member of drama club director board of 2023.
- **Olympiad:** Olympiad: Secured 2nd and 6th place in the All-Island National Junior Science Olympiad in 2012 and 2011, respectively. Participated in the International Junior Science Olympiad in both years, held in India and the Philippines. Secured a bronze medal in the former.

REFERENCES

- **Prof. Indika Perera**
Senior Lecturer,
Department of Computer Science and Engineering,
University of Moratuwa.
Email :indika@cse.mrt.ac.lk
- **Mr. Thilanga Jayamanne**
Associate Software Architect
GTN Tech (Pvt) Ltd.
Email :thilangajayamanne@gmail.com

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.
- I built the scoring system, UI and live leaderboard with firebase integration
- **Tech Stack :** Unity | Firebase

Hotel & Restaurant MIS: Web and Mobile based hotel/ restaurant management system 2023 MAY - 2023 NOV

- A team project to provide functionalities such as room booking, table booking, order management to a hotel or a restaurant.
- Developed as a website and 3 native android applications.
- I built the Virtual Waiter and Restaurant Order Management system components
- **Tech Stack :** React | Android Studio | Firebase

Chatbot Assistant for Agile Development 2024 SEP

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

Cquence: an Android App to Create Complex Alarm Sequences 2024 SEP

- Built to help me play the game Dota 2, where some reminders are needed to track complex events happening.
- Allows users to pre-set alarms for any tasks such as workout schedule and trigger them using complex patterns.
- Built in voice recorder and other utilities
- **Tech Stack :** Android Studio | Kotlin | Jetpack Compose | SQLite

Supply Chain Management System 2022 JUN- 2022 DEC

- This web application automates the complete supply chain management process through MySQL functions and triggers.
- I built both frontend and the backend and helped to develop the database schema.
- **Tech Stack :** MySQL | React | Express.js | 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

Nano Processor Design 2022 JUNE - 2022 JUL

- Designed a 4-bit nano processor with four instructions including addition using hardware description language.
- **Tech Stack :** VHDL | Vivado