

MIHIN RATNAYAKE

SOFTWARE ENGINEER



SKILLS

Java
Python
HTML / CSS
JavaScript
SQL
PHP
AWS
Firebase
Data Structures

EDUCATION

BENG (HONS) SOFTWARE ENGINEERING

University Of Westminster
2021 – 2024

- Concurrent Programming
- Object Oriented Programming
- Web Development
- Data Structures & Algorithms
- Database Systems
- Machine Learning

G.C.E A/L

S. Thomas' College
2017 – 2019

- Mathematics

G.C.E O/L

Vidura College
2006 - 2016

EXTRACURRICULARS

- Badminton Captain - IIT (2024)
- House Captain - IIT (2024)
- Scout Troop Leader - (2014 - 2016)
- Athletics – (2017 - Present)
- Chess – (2009 - Present)
- Rotaract Club of Colombo West (Active)

REFERENCE

Mr. Hasaru Rajapakse

Senior Lead Software Engineer
Enterprise Analytics | IFS R&D Finance
Tel: +94 779 480 346
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SUMMARY

Software Engineer with a strong foundation in **Java, React, Node.js, Python, and database management**, complemented by expertise in **cloud technologies (Firebase, AWS)** and **machine learning (Python)**. Experienced in **software customization, system enhancements, and full-stack development**, with a passion for **problem-solving, innovation, and delivering scalable solutions**. Strong **leadership abilities**, excellent **team collaboration**, and effective **communication skills**.

Portfolio: <https://mihinratnayake.pythonanywhere.com>

PROFESSIONAL EXPERIENCE

IFS ASSOCIATE SOFTWARE ENGINEER

Enterprise Analytics (IFS) | 2022–2023

- Worked as a **Full stack developer**, implementing configurations and developing new features within the **IFS ERP system** to address customer requirements. Utilized **PL/SQL, SQL, and Aurena** for backend development and the **IFS Development Framework** for frontend implementations.
- Gathered requirements for software customizations by evaluating existing capabilities and researching enhancements to meet customer needs.
- Implemented new features and modified existing code to achieve functional improvements.
- Followed software development methodologies by documenting technical specifications, code changes, and key decisions.

SQL, PL/SQL, Aurena, Azure, Bitbucket, GitHub, Jira, Power BI

PROJECTS

MOVIE RECOMMENDATION SYSTEM BASED ON EMOTIONS

- Developed a hybrid ML-powered application that uses image processing and Convolutional Neural Networks (CNN) to detect user emotions and provide personalized movie recommendations using advanced machine learning concepts to enhance user engagement.

Machine Learning (CF, CBF), CNN, Flask, Node.js, MySQL, EJS, JavaScript, HTML, CSS, Python

A TECHNICAL QUESTION AND ANSWER WEB APPLICATION

- Developed a dynamic e-commerce website for sports equipment, featuring CSS-based navigation, a query form with JavaScript validation, and a section for automated product price calculations. Utilized forms, buttons, and menus to provide a responsive and user-friendly interface.

CodeIgniter, PHP, Backbone.js, JavaScript, PhpMyAdmin, AJAX, jQuery, REST API, MYSQL, JSON, UI/UX.

TICKET MODELLING SYSTEM

- Modelling a ticketing system that consists of a shared ticket machine used by passengers and serviced by two technicians using FSP (Finite State Processes) and implementing it in Java with concurrency features.

Java (Concurrency, OOP, LinkedList, Arrays), FSP

COVID-19 VACCINATION CENTER PROGRAM

- Developed a Java application to manage COVID-19 vaccination appointments for up to six people simultaneously. Utilizing core Object-Oriented Programming concepts and efficient data structures like linked lists and arrays, Integrated CRUD operations for record management and designed a user-friendly interface with JavaFX.

Java (OOP, LinkedList, Arrays), JavaFX

For more projects: <https://github.com/MihiniR>