# MIHIN RATNAYAKE

## CONTACT

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**GitHub:**
https://github.com/Mihinr

## PROGRAMMING SKILLS

- Java
- Python
- HTML
- CSS
- PHP
- JavaScript
- SQL
- Kotlin

## VERSION CONTROL

- GitHub
- Bitbucket

## ABOUT ME

Software Engineering graduate with hands-on experience in application development and problem-solving. Adept at collaborating in agile environments and utilizing modern technologies like Python, Java, and cloud platforms to deliver innovative solutions. Passionate about learning, excelling in leadership, and adapting to dynamic challenges

## WORK EXPERIENCE

**IFS ASSOCIATE TECHNICAL CONSULTANT AT ENTERPRISE ANALYTICS (2022-2023)**

- Conducted requirement gathering to customize software solutions based on customer needs, assessed existing capabilities, and identified areas for enhancement. Integrated new features and modified the codebase using SQL and PL/SQL within IFS Developer Studio. Gained hands-on experience with Enterprise Explorer and IFS Web applications (Apps8, Apps09, Apps10, Aurena), as well as IFS Cloud. Collaborated with project teams to deliver the next version of applications, leading troubleshooting efforts during Go-Live. Followed software development methodologies to ensure efficient and high-quality delivery.
  **SQL, PL/SQL, Aurena, Azure, Bitbucket, GitHub, Jira, PowerBi**

## 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**

**SKIN CANCER DETECTION APPLICATION (Group Project)**

- Developed a mobile application using Android Studio and Kotlin, allowing patients to upload images of suspected lesions for diagnosis. The app uses image processing and Convolutional Neural Networks (CNN) to analyze the images and determine whether the lesion is cancerous or not.
  **Convolutional Neural Networks, Python, Kotlin, Android Studio, Firebase, Jenkins.**

## PROJECT MANAGEMENT

- Jira
- Trello

## CLOUD PLATFORMS AND DATABASES

- MySQL, phpMyAdmin
- Cloud ERP
- Netlify
- AWS
- Firebase

## SOFT SKILLS

- High Organizational Skills
- Problem Solving
- Teamwork
- Leadership
- Multitasking
- Adapts to any Environment
- Fast Learner

## RELATED REFERENCES

**Mr. Dushmantha Bandara**
Head of Service Delivery | Lead ERP Consultant | IFS Certified Practitioner Enterprise Analytics
**Tel**: +94 (0) 773 658 472
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**Mr. Hasaru Rajapakse**
Senior Lead Software Engineer
Enterprise Analytics | IFS R&D Finance
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## A TECHNICAL QUESTION AND ANSWER WEB APPLICATION

- Developed a website for users to post and answer technical questions, with upvote and downvote features. Implemented CRUD operations and integrated RESTful APIs using the MVC architecture in CodeIgniter for efficient and scalable development.
  **CodeIgniter, PHP, Backbone.js, JavaScript, PhpMyAdmin, AJAX, jQuery, REST API, MYSQL, JSON, UI/UX.**

## SPORTS WEBSITE (Group Project)

- 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.
  **HTML, CSS, JavaScript, Forms, Buttons, Menus, Validation.**

## 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**

## EDUCATION

### BENG (HONS) SOFTWARE ENGINEERING

- Informatics Institute of Technology (IIT), Sri Lanka affiliated with the University of Westminster (UOW), London (2021 - 2024).

### G.C.E ADVANCED LEVEL (MATH STREAM)

- S. Thomas' College, Mt. Lavinia (2017 - 2019).

### G.C.E ORDINARY LEVEL

- Vidura College, Colombo (2006 - 2016).

## EXTRA CURRICULAR ACTIVITIES

- Badminton Captain - IIT (2024)
- House Captain - IIT (2024)
- Badminton Captain - Vidura College (2014 - 2016)
- Scout Troop Leader - 69th Colombo Vidura College (2014 - 2016)
- Athletics – S. Thomas' College (2017 - 2019)
- Chess - Vidura College (2009 - 2014)
- Rotaract Club – IIT (2020 - 2024) & Colombo West (2024 - Present)