MIHIN RATNAYAKE
Web Application Developer | Software Engineer
Nawala, Rajagiriya | mihinratnayake19@gmail.com | +94 77 800 4904 | GitHub | LinkedIn | Portfolio

SKILLS

- **Programming Languages**: Java, JavaScript, HTML, CSS / Tailwind, SQL
- **Frameworks:** React.js, Node.js, Spring Boot(Learning)
- **Cloud & Databases:** Firebase, Firestore, AWS, MySQL, MongoDB, Cloudinary
- **Other Technical Skills:** WebSockets (Socket.io), JWT Authentication, Password Hashing (bcrypt), UI/UX Design

PROFESSIONAL EXPERIENCE

IFS Software Engineer (Internship)
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. **SQL, PL/SQL, Aurena, Azure, Bitbucket, GitHub, Jira, Power BI.**

Freelance Software Engineer *(2024 Dec - Present)*

- Developed **www.winners.lk**, a badminton sports equipment and session management website for a client, using **React** (Frontend) and **Flask** (Backend). Integrated features included product management, session scheduling, and user interactions, ensuring a smooth and efficient experience for both users and administrators. **React.js, Flask, MySQL**

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, **React.js, Node.js, Flask, MySQL, EJS, JavaScript, HTML, CSS, Python.**

A technical question and answer web application

- This is an interactive platform where users can post and answer technical questions, helping to foster a collaborative community. The site features upvote and downvote capabilities to ensure quality content, as well as efficient CRUD operations for managing questions, answers, and user data. Built with CodeIgniter and leveraging MVC architecture. **CodeIgniter, PHP**, **Backbone.js, JavaScript, PhpMyAdmin, AJAX, jQuery, REST API, MYSQL, JSON, UI/UX.**

Ticket modeling 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.**

Chat App

- Developed a full-stack real-time chat application enabling secure and seamless user communication. Integrated JWT-based authentication, bcrypt-hashed password storage, and WebSocket-powered messaging via Socket.io. Managed state across the app using Zustand and built a fully responsive frontend with React. Users can create profiles and view online status in real time. **React, Node.js, Express, Socket.io, Zustand, JWT, bcrypt, CSS (Tailwind), MongoDB, Cloudinary**

**Currently developing my project, Sri Lanka's dedicated badminton court booking website, using MERN stack (MongoDB, Express, React.js, Node.js) to streamline court reservations.

EDUCATION

BEng (Hons) Software Engineering
University of Westminster affiliated with IIT | 2021 – 2024 | Upper Second Class

- Key Modules: Concurrent Programming, Object Oriented Programming, Web Development, Data Structures & Algorithms, Database Systems, Cybersecurity, Machine Learning.

Advanced Level
S. Thomas's College | 2017-2019

- Stream: Mathematics

LEADERSHIP AND EXTRACURRICULARS

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

REFERENCE

Mr. Hasaru Rajapakse
Senior Lead Software Engineer | Enterprise Analytics | IFS R&D Finance
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