

# MIHIN RATNAYAKE

Web Application Developer / Software Engineer

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## SKILLS

- **Programming Languages:** Java, Python, JavaScript, Tailwind CSS
- **Frameworks:** React, Node, Flask, Spring Boot (Learning)
- **Cloud & Databases:** Firebase, MySQL, MongoDB, Cloudinary, AWS
- **Other Technical Skills:** WebSockets, JWT Authentication, Password Hashing (bcrypt), UI/UX Design, REST, GitHub, Docker.

## CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals
- AWS Certified Cloud Practitioner (Ongoing)

## PROFESSIONAL EXPERIENCE

### Software Engineer - Internship

Commercial Bank PLC | April 2025 – July 2025

- I worked as a Software Engineer focusing on database administration. I developed a monitoring dashboard to track key metrics such as uptime, database size, log usage, active connections, CPU/memory usage, running and top queries, blocking sessions, waits, and index health. **Python, Streamlit, Pandas, SQLAlchemy, SQL Server**

### IFS Software Engineer - Internship

Enterprise Analytics (IFS) | 2022–2023

- Worked primarily within the **IFS Enterprise Resource Planning (ERP)** application to configure solutions based on customer requirements.
- Utilized **Oracle PL/SQL** for business logic programming.
- Applied the **IFS Development Framework** for both frontend and backend development.
- Provided **technical support during go-live activities** to ensure smooth transitions.
- Followed established **software development methodologies** throughout project lifecycles.  
**. SQL, PL/SQL, Aurena, Azure, Bitbucket, GitHub, Jira, Power BI.**

### Freelance Software Engineer (2024 Dec - Present)

Winners.lk - Badminton Sports Equipment & Session Management Website

- Delivered a fully functional badminton equipment and session management platform using **React.js, Flask, and MySQL**, handling the entire process from **client discussions** and **project planning** to **development** and **deployment**.
- Designed and implemented responsive UIs, session booking flows, and product listing features to enhance user engagement.
- Managed project timelines, feature prioritization, and deployment independently, ensuring on-time delivery and client satisfaction.

### Giftora.info – Online Gifting Platform

- Engineered a front-end e-commerce platform for premium gift hampers using **React.js**, and **Tailwind CSS**. Designed an engaging product catalog with modal item views, smooth UI transitions using **Framer Motion**, and a mobile-first responsive layout. Implemented global state handling with **Zustand** and optimized build performance through Vite's tooling. Deployed the application to **Netlify** with a refined, production-ready configuration.

### Studio15Architects.co.uk – Architectural Portfolio

- Developed a responsive portfolio website to showcase projects and services using **React 19, React Router, Vite, Tailwind CSS, Swiper.js, Netlify, and FormSubmit API**. Built a SPA with dynamic routing, individual project

detail pages, image carousels, and a contact form. Implemented smooth transitions, image optimization, and lazy loading, ensuring a seamless user experience across desktop, tablet, and mobile devices.

#### Gowinsports.lk – E Commerce Platform

- Full-stack e-commerce site for badminton equipment. Built with **React.js** and **Node.js/Express**, featuring a **MySQL** database, admin panel for product management, user authentication, and responsive design with animations. Containerized with **Docker** and deployed to production. Includes product catalog with filtering, image uploads, variant management, and **SEO optimization**.

### PROJECTS

#### BookingZone – Badminton Court Booking Application

- Developed a responsive badminton court booking system using **React**, **Tailwind CSS**, **Node.js**, and **MySQL**, enabling users to seamlessly view availability, book courts, and manage recurring reservations. Implemented secure **JWT-based authentication**, real-time slot updates, and an **admin panel** for court and user management. Designed an optimized booking flow with add-to-cart, recurring booking options, and notification features to enhance user experience.

#### 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**.

#### 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**, **brypt**, **CSS (Tailwind)**, **MongoDB**, **Cloudinary**

### 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 – All island championships, IIT captain (2024)
- 69<sup>th</sup> Colombo Scout Troop Leader
- Athletics
- Rotaract Club of Colombo West (Active)