

# KAVISHKA HESHAN

## SOFTWARE ENGINEER

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Kavishka Heshan

Marawila

### PROFILE

An enthusiastic and results-driven Software Engineer with a strong foundation in problem-solving and software development. Eager to leverage technical skills and innovative thinking to build scalable solutions while contributing to organizational success. Passionate about continuous learning, collaboration, and delivering high-quality code to drive impactful projects.

### WORK EXPERIENCE

- Associate Software Engineer | Avenstra (Pvt.) Ltd** June 2025 - Present
  - Developed a multi-tenant travel management system using ASP.NET Core 8, EF Core, and SQL Server, featuring role-based access control, multi-language support, and RESTful APIs for bookings, products, quotations, and payments.
  - Built a corporate travel management system using C# .NET, Blazor, and MSSQL, implementing booking workflows, approval processes, and employee travel document management.
- Software Engineer Intern | Pristine Solutions (Pvt.) Ltd** January 2023 - July 2023
  - Implemented new features and resolved bugs for Logistics & Warehouse Management System.
  - Performed front-end fixes using AngularJS and JavaScript to improve user experience.
  - Developed back-end solutions with C# and .NET to enhance system functionality.
  - Optimized database operations by modifying SQL stored procedures.
  - Collaborated with senior engineers on code reviews and quality assurance.
  - Contributed to agile development cycles and sprint deliverables.

### EDUCATION

- B.Sc. (Hons.) in Information Technology** 2020 - 2024 July

Faculty of Information Technology | University of Moratuwa
- GCE Advanced Level** 2018

St. Joseph Vaz College, Wennappuwa | 3 B's
- GCE Ordinary Level** 2015

St. Joseph Vaz College, Wennappuwa | 7 A's 1 B 1 S

### PROJECTS

- AI-Powered Database Chat System** 2025

Developed an intelligent system that converts natural language questions into executable SQL queries using Retrieval-Augmented Generation (RAG). Implemented semantic search over a vector database of sample queries to provide contextual examples, combined with Ollama's LLM capabilities for accurate SQL generation.

Technologies used: Ollama (LLM), C# .NET, MSSQL, Vector Embeddings, Semantic Search
- UML Diagram Marking Model | Final Year Research Project** 2024

Creating an automated system that utilizes Natural Language Processing (NLP) and Machine Learning (ML) techniques to generate UML class diagrams and use case diagrams from textual descriptions. Additionally, implementing automated analysis and grading features to streamline the assessment process.

Technologies used: NLP, ML, Python

- **Restaurant Management System | Level 2 Software Project**

2021

A system to speed up and simplify the process of a restaurant by developing a user friendly web application and a mobile application while the web application use to manage the inside works of the restaurant and mobile application use to customer purpose.

Technologies used: ReactJS, Node.js, Bootstrap, MongoDB, ReactNative

- **An Automated Ornamental Fish Aquarium | Level 1 Hardware Project**

2020

An automated aquarium was developed to have a better environment for the fish by controlling temperature, Oxygen, light condition, pH value and automated feeder to increase the fish production and minimize the labour cost and human errors.

Technologies used : C, Atmel

## **TECHNICAL SKILLS**

- **Programming Languages** C, Java, JavaScript, Python, C#
- **Web Technologies** HTML, CSS, ReactJS, NodeJS, AngularJS, .NET, Blazor
- **Tools and Platforms** VS Code, Cisco Packet Tracer, Visual Studio, IntelliJ IDEA
- **Database Tools** SQL, MongoDB
- **Version Control** Git
- **Other Technologies** Postman, Jira, Figma

## **COURSES & CERTIFICATES**

- **Web Development with Bootstrap Bootcamp** 2022
- **Java Certificate Course | Udemy** 2021

## **COMPETITIONS**

- **Hack Moral 4.0 - Participation** 2022  
Virtual mini-hackathon organized by INTECS | University of Moratuwa.
- **Code Rush - Participation** 2020  
Intra faculty coding competition organized by INTECS | University of Moratuwa.

## **EXTRA-CURRICULAR ACTIVITIES**

- **Junior Treasure | Student Union Faculty of IT, University of Moratuwa** 2023 - 2024
- **Main Organizing Team Member, FIT Sixes Cricket Tournament** 2023
- **Office Manager | Akura Educational Institute** 2022 - 2023
- **Invictus E-sports Tournament | 2nd Runners Up, University of Moratuwa** 2021
- **Trainee | Peoples' Bank Mahawewa** September 2019 - December 2019

## **REFEREES**

- **Ms. Imalka Prasadini**

**Software Engineer**

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