

Chathumini Wanasingha -Software Engineer

Undergraduate | University of Moratuwa | IT

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About Me

A dedicated IT undergraduate with strong analytical and problem-solving skills, experienced in working collaboratively to deliver results. I am proactive, reliable, and driven by a passion for learning new technologies and building meaningful solutions. Seeking opportunities to grow as an IT professional while contributing value to forward-thinking organizations.

Education

University of Moratuwa - Faculty of Information Technology

(2022-2026)

BSc (Hons) in Information Technology – CGPA: 3.38

Badulla Central College

(2011-2019)

G.C.C Advanced Level (Physical Science) – Chemistry: A, Combined Maths: B, Physics: C, Z-Score: 1.5024

G.C.C Ordinary Level – 9 A's

Experience

Software Engineer Intern – X-ONT Software (Pvt) Ltd (On-site)

Feb 2025 – Sep 2025

- Gained hands-on experience in software development using ASP.NET, Angular, MS SQL Server, and Crystal Reports.
- Trained on the company's base application "Ventura", contributing to feature development and system enhancements.
- Played a key role in developing an internal Staff Leave Management System using .NET 8 and Angular 19.
- Worked collaboratively with the development team to deliver quality solutions and meet project targets

Projects

Hospital Management System

Role – Full-Stack Developer | Level 2 Software Group Project

2023 Dec – 2024 May

- Collaborated on a web-based system to manage hospital operations and patient records.
- Features included patient management, appointments, EHR handling, billing and invoicing, reporting, and drug store management.
- Developed inventory tracking and billing dashboards to support accurate invoicing and data visibility.
- **Technologies:** ReactJS, ASP.NET, MS SQL Server, Material UI, Azure, Vercel

Leave Application-Internship project

Role – Full-Stack Developer– Employee Leave Entry Module

July-2025

- Independently implemented the Employee Leave Entry workflow, including validation and database integration
- Implemented business rules to ensure accurate leave balances and reliable data storage.
- Deployed the system on IIS for stable and secure access.
- **Technologies:** Angular 19, .NET 8, MS SQL Server, IIS

Library Management System

Role: Full-Stack Developer | Individual Project

July 2025 – Nov 2025

- Designed and developed a **secure full-stack library management system** with authentication, role-based authorization, and database-driven workflows using **Angular, .NET 8, EF Core, and MS SQL Server**
- **Technologies:** Angular, .NET 8, MS SQL, JWT, Role-Based Authorization, Entity Framework Core

Credit Card Fraud Detection (AI Model)

Role: Full-Stack Developer | Individual Project

Jan 2026

- Built an ML-based fraud detection system achieving good accuracy on 284K+ transactions using ensemble learning algorithms.
- Developed comparative analysis of Logistic Regression, Random Forest, and XGBoost models with comprehensive performance metrics.
- **Technologies:** Python, Scikit-learn, Pandas, NumPy, XGBoost, SMOTE, Jupyter Notebook

Flutter Joke App

Role: Mobile App Developer | Individual Project

Dec 2024

- Built a Flutter-based joke application with API integration, local caching using shared preferences, and a minimalist UI with dynamic background switching
- Technologies:** Flutter, Dart, REST API, shared preferences, Material UI

Online Shopping System

Role: Frontend Developer | Group Project | Microservices Architecture

Oct 2024 – Nov 2024

- Developed a microservices-based online shopping system with Seller, Customer, and Admin modules.
- Technologies:** React Native, TypeScript, Material UI, Spring Boot, Microservices Architecture, MS SQL, Docker.

BuddyBot – AI Chatbot

Role: Responsible for the entire app

Aug 2025 – Sep 2025

- Developed an AI-powered chatbot with a React frontend and a Python FastAPI backend to handle user queries and generate intelligent responses
- Integrated Groq LLM API with secure API key management and enabled smooth frontend–backend communication using REST APIs and CORS.
- Technologies:** React, Python, FastAPI, Groq API (LLM), REST API

Real-Time Quiz Platform

Role: Responsible for the entire app

Jan 2026 – ongoing

- developing a **real-time quiz platform** allowing multiple users to participate simultaneously with **instant score updates**
- Will implement **live leaderboards**, real-time notifications, and session management for competitive quizzes.
- Technologies:** Angular, Typescript, Mui, ASP.Net core, SignalIR, Ms sql, JWT, CORS handling

Pharmacy Storage Assistant (Robot)

Role: First Year Hardware Group Project | member

Dec 2022 – July 2023

- Developed a robot to automatically retrieve medicines based on lists generated by a web application.
- Implemented serial and WiFi communication between NodeMCU (ESP8266) and Arduino Mega, and contributed to the web interface.
- Technologies:** C++, Arduino, ESP8266, ReactJS, Sensors

Skills and Interests

Technical Skills:

- Programming Languages:** C#, Java, Python, Dart, C
- Backend Frameworks:** .NET
- Mobile Frameworks:** Flutter, React Native
- Web Development:** React, Angular, NextJS, Material UI, HTML/CSS/JavaScript, TypeScript
- Databases:** Microsoft SQL, MySQL
- Version Control:** Git/GitHub
- Cloud Solutions & Hosting:** Azure, AWS, Vercel, IIS
- Containerization:** Docker/DockerHub
- Applications/Tools:** Visual Studio, Android Studio, VS Code, IntelliJ IDEA, Jupitor Notebook

Languages: English, Sinhala

Soft Skill:

Problem-solving,
Communication, Teamwork,
Motivation, Hardworking,
Quick Learning

Interests

Coding, Singing, Reading

Competitions and Extracurricular Activities

- Participated coding competition "Code Rush" (2023)
- Competed in Hackaholics 6.0
- Participated Competition "Mora UXplore 2.0"
- Member of the School Eastern music group
- Member of **AIESEC Sri Lanka**, IGT IR and matching roles, contributing to international and local projects.
- Member of the **IEEE UOM volunteers**, contributing to IEEE activities and events at the university.

References

Ms. M.N. Chandimali (Lecturer probationary)
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