



# CHAMILKA MIHIRAJ

## SOFTWARE ENGINEERING INTERN

### CONTACT

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Dankotuwa, Sri Lanka

ChamilkaMihiraj2002

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Chamilka Mihiraj Perera

### TECHNICAL SKILLS

#### PROGRAMMING LANGUAGES

- Java
- Python
- C/C++
- JavaScript
- TypeScript
- Php

#### BACKEND FRAMEWORKS

- Node/Express
- Laravel
- Nest

#### FRONTEND FRAMEWORKS

- React
- HTML
- CSS
- Ant Design
- Material UI
- Tailwind CSS
- Bootstrap

### ABOUT ME

As a driven individual with a strong foundation in technical skills, I excel in learning independently and adapting to new technologies. I'm seeking an opportunity for a software engineering internship where I can leverage my skills and enthusiasm for technology to contribute to innovative solutions and continuous growth.

### EDUCATION

#### B.Sc. (Hons) Degree in Information Technology and Management

Faculty of Information Technology, University of Moratuwa

2023 - PRESENT

- CGPA - 3.57 / 4.00 (Semester 1 - Dean's List)

#### GCE Advance Level

Sri Sangabodhi National College, Dankotuwa

2021 - 2022

- Z- Core : 2.3572
- District 1<sup>st</sup>
- Accounting | Economics | Information and Communication Technology

### PROJECTS

#### EmpSync (SaaS-Based Employee Management System)

2025 JAN - 2025 AUG

2<sup>nd</sup> Year Software Project - Kingteza Software Solution (Pvt) LTD

In this project, I focused on developing the multi-tenant architecture with a Super Admin role for centralized control. I built the Super Admin dashboard to provide system-wide statistics and insights for effective monitoring. I also implemented workflows for organization management, admin creation, and permission handling. To ensure scalability, I optimized the database schema for improved performance and efficiency.

- **Technologies** - React.js (Ant Design) frontend, NestJS backend, Prisma ORM with PostgreSQL, and Firebase Storage for media management.
- **Github Link** : <https://github.com/ChamilkaMihiraj2002/EmpSync>

#### Finance Paysheet Emailer

2025 FEB - 2025 APR

IES Labs - Faculty of IT, University of Moratuwa

In this project, my role involved automating the CSV data import process to fetch employee details and verify accuracy. I implemented matching logic to pair employee numbers with their corresponding PDF paysheets and automated email sending. I also created detailed application logs to track deliveries, handle errors, and ensure smooth bulk operations. Additionally, I enhanced the Tkinter GUI with a modern, user-friendly design and built a loading screen for feedback.

- **Technologies** - Python (GUI - Modern Tkinter), SQLite, smtplib, pytest

#### Medical Appointment Scheduling System

2025 JAN - 2025 FEB

Course Code: IN22-S3-IN2120 - Web Programming | Semester: L2S1

As part of the Web Programming course (IN22-S3-IN2120) during Semester L2S1, I developed a full-stack web application for medical appointment scheduling. The system allows patients to browse doctors by specialty, book and manage appointments, and securely log in with role-based authentication. Administrators have access to a dedicated dashboard to manage users, doctors, and appointments effectively. The application also provides real-time insights to support better decision-making and system oversight.

- **Technologies** - React.js, Bootstrap, Laravel, Laravel Sanctum, MySQL, RESTful API
- **Github Link** : <https://github.com/ChamilkaMihiraj2002/Health-app>

DATABASES

- MySQL
- MSSQL
- SQLITE
- PostgreSQL
- MongoDB
- Firebase

CLOUD & DEVOPS

- Aws
- Docker
- Linux
- Postman

TOOLS

- Figma
- Arduino
- Git
- GitHub
- CI/CD (GitHub Actions)

CODING ENVIRONMENTS

- VS Code
- IntelliJ IDEA
- PyCharm
- WebStorm
- CLion

CREATIVE & DESIGN

- Adobe Photoshop
- Gimp
- CorelDraw

SOFT SKILLS

- Communication
- Problem-Solving
- Teamwork
- Time Management
- Learning Agility
- Creativity

LANGUAGE

- English
- Sinhala

Pharmacy Queue Management System

2025 MAR - 2025 MAY

Project from freelance

I developed a Pharmacy Queue Management Web App using the MERN Stack, where I implemented a robust backend to handle core business logic and designed an efficient data storage architecture. This solution streamlined daily pharmacy operations by optimizing queue handling and improving overall workflow efficiency.

- **Technologies** - MongoDB, Express.js, React, Node.js

Automatic Bottle Filling and Capping Machine

2023

(First Year Hardware Project - Team Leader)

As part of a 1st-year hardware module, I contributed to developing an Automatic Bottle Filling and Capping Machine using Arduino. The system was designed to detect bottles, fill them with a user-specified volume of liquid, and cap them with precision. Key features included sensor-based bottle detection, keypad volume selection, LCD process monitoring, and automated error handling. The project integrated flow sensors, motors, and a 12V pump through Arduino Mega, strengthening my skills in embedded systems and automation.

- **Technologies** - Arduino, C/C++, GitHub (Version Control)
- **Github Link:** <https://github.com/ChamilkaMihiraj2002/Automatic-bottle-filling-and-capping-machine>

HACKATHONS

BITCODE V5.0 - 20<sup>th</sup> place

Organized by Business Information Technology Students' Association, Rajarata University of Sri Lanka

MoraXtreme 9.0 - 22<sup>nd</sup> place among 360+ teams

Organized by IEEE Student branch of University of Moratuwa

ENIGMA '24 - Crack the Code - 60th place among 300+ teams

Organized by Mathematics Society of the University of Moratuwa

CERTIFICATES

Mathematics for Machine Learning and Data Science

DeepLearning.AI | 2025

Version Control

Meta | 2024

Data Analysis Using Python

IBM | 2024

AI/ML Engineer - Stage 1

SLIIT | 2023

Python for Data Science

IBM | 2023

JavaScript and React.js Bootcamp

Google Developer Student Club | 2024

EXTRA CURRICULAR

Technical Writer

Medium

2023 - PRESENT

Firmware Team Member

IoT and Embedded System Labs, Faculty of IT, UoM

2024 - PRESENT

FIT Moments - Media Crew Member

- Creative Design Pillar - Graphic Designer
- ICITR 2024 - Designer

2023 - PRESENT

Graphic Designer and Organizing Community Member

Rotaract Club of University of Moratuwa

2023 - 2024

REFERENCE

Mrs Nishara Batagoda

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Faculty of Information Technology,  
University of Moratuwa.

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