



# CHUTHUKA DEDUNU

## COMPUTING & INFORMATION SYSTEMS UNDERGRADUATE

### CONTACT

- +94 76 645 3116
- [cdhettiarachchi@std.foc.sab.ac.lk](mailto:cdhettiarachchi@std.foc.sab.ac.lk)
- 72/1, Devala Road, Makola North, Makola
- [ChuthukaDedunu](#)
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### SKILLS

#### Programming Languages

Python, Java, C++, JavaScript, TypeScript

#### Web Development

ReactJs, NextJs, FastAPI, NodeJs, ExpressJs

#### Database Systems & Technologies

MySQL, MongoDB

#### Version Control

Git, GitHub

#### Machine Learning

Numpy, Pandas, Scikit-learn, TensorFlow

#### Data Analysis & Visualization

Microsoft Excel, Power BI, Looker Studio

### TECHNOLOGICAL INTERESTS

- Web Development
- Software Development
- Data Analytics
- Artificial Intelligence

### PROFILE

Third-year Computing and Information Systems student at the University of Sabaragamuwa with a strong foundation in software development and a deep motivation to stay current with evolving technologies. I'm seeking an internship opportunity where I can apply my skills to build impactful solutions and continue developing in a dynamic, innovative environment.

### EDUCATION

- B.Sc (Hons) Computing and Information Systems  
Sabaragamuwa University . Sri Lanka, 2023-present
- Diploma in Software Engineering  
ICET, Panadura (Part-time, Ongoing, 2024-Present)
- G.C.E Advance Level Examination  
Sri Dharmaloka Central College. Kelaniya, Sri Lanka . 2021 BCC
- G.C.E Ordinary Level Examination  
Sri Dharmaloka Central College.Kelaniya, Sri Lanka . 2017 . 6A 2B 1C

### PROJECTS

- ChemoSense - Intelligent Chemotherapy Monitoring System**  
March 2025 - July 2025  
IoT (ESP32, MAX30102, DS18B20) | Python + FastAPI | Firebase|  
React (Web) + React Native (Mobile)
  - Developed an end-to-end monitoring system for chemotherapy patients using IoT sensors to track vitals (SpO<sub>2</sub>, heart rate, temperature) in real time.
  - Implemented ML models to classify risk levels (high, medium, and low) and generate automated alerts for doctors and patients.
  - Built web and mobile dashboards for doctors, admins, and patients, including appointment management and a health-support chatbot.
  - Managed backend connections, data storage, and frontend integration for a seamless user experience.
  - Enhanced patient safety by enabling real-time monitoring and early detection of critical conditions outside the hospital.
- Car Data Analysis Project - Data Analysis & Visualization (2025)**  
Python | Pandas | Matplotlib | Jupyter Notebook
  - Collected and cleaned car sales dataset from Kaggle for analysis.
  - Performed data analysis and visualization to identify trends, patterns, and insights.
  - Created charts and graphs to summarize findings and support data-driven decision-making.

# LANGUAGES

- English (Fluent)
- Sinhala (Fluent)

# PERSONAL INTERESTS

- Tech exploration
- Music
- Entrepreneurship

# REFERENCE

Ref

Sachini Anushika  
Senior Consultant Software  
Quality Assurance  
EvonSys (Pvt) Ltd.  
No. 18, Poorwarama Road,  
Nugegoda, 00600,  
[sachini.anushika@evonsys.com](mailto:sachini.anushika@evonsys.com)  
+94 74668063

- Movie Discovery Web Application (2025)

React | TypeScript | Tailwind CSS | TMDb API | Context API | Docker | Vercel

- Developed a responsive web app for exploring movies, viewing details, and discovering trending films with mobile-first design.
- Implemented user authentication, a favorites system, and real-time search functionality with localStorage persistence.
- Built movie detail pages showing overview, genres, cast, and YouTube trailers using the TMDb API.
- Enabled theme toggling (light/dark mode) and optimized the app for Docker deployment and Vercel hosting.
- Enhanced user experience with pagination, load-more functionality, and optimized layouts across devices.

- Weather Forecast App - Responsive Web Application

MERN Stack (MongoDB | Express.js | React | Node.js) | Tailwind CSS | OpenWeatherMap API

- Developed a responsive web application to display real-time weather data by city, including temperature, conditions, and humidity.
- Implemented search functionality and optional search history with MongoDB for persistent user data.
- Built a clean and mobile-first UI using Tailwind CSS for optimal experience across devices.
- Integrated OpenWeatherMap API to fetch and display live weather data.
- Designed for scalability with frontend-backend separation

- Virtual Plant Care Guide - Intelligent Web Application

HTML5 | CSS3 | JavaScript | TensorFlow.js | ML5.js | Gemini AI

- Built a plant disease detection app using ML models to analyze images and identify conditions.
- Integrated AI-powered treatment recommendations for real-time plant care guidance.
- Designed a responsive, user-friendly interface with instant feedback and mobile compatibility.

# PROFESSIONAL EXPERIENCE

- **Management Trainee**

Susipvan Higher Education (PVT) LTD, Gampaha | 2022-2023

# CERTIFICATIONS

- Web Design for Beginners - University of Moratuwa, CODL (2025)
- Data Science 101 - IBM Cognitive Class (Aug 2025)
- Data Science Foundations - Level 1 - IBM (Aug 2025)
- Power BI for Beginners - Microsoft, Simplilearn SkillUp (Aug 2025)
- Work with Components in Figma - Coursera Project Network (Mar 2025)
- AI Workshop - BuilderX, Ministry of AI & ICET (Aug 2025)
- Prompt Engineering for Everyone - IBM (Aug 2025)
- Postman API Fundamentals Student Expert - Postman (2025)