

# Namal Chandrasekara

Software Engineer | Web & Mobile App Developer | Machine Learning & AI Enthusiast

Phone: +94703957453 | Email: [namalchandrasekara01@gmail.com](mailto:namalchandrasekara01@gmail.com) | Address: Balangoda, Sri Lanka

LinkedIn: [www.linkedin.com/in/namalchandrasekara](https://www.linkedin.com/in/namalchandrasekara)

## PROFILE SUMMARY

Detail-oriented Software Engineer skilled in **Web & Mobile App Development, Machine Learning (ML), and Artificial Intelligence (AI)**. Proficient in **Python, JavaScript, SQL, React, Flutter, Node.js, Flask, C++**. Strong foundation in Data Structures, Object-Oriented Design, Software Architecture, and Database Management. Experienced in building scalable, user-centric applications with a focus on performance, innovation, and cross-platform integration.

## WORK EXPERIENCE

**Freelance Software Developer** **Feb 2025-Present**

**Web Application & Android App Development**

- Built a CV analysis web app using HTML, CSS, JS, and ChatGPT API to generate career paths, questionnaires, and course suggestions.
- Developed a Flutter pill reminder app with Django, MySQL, and GPT API for image-based prescription extraction and automated reminders.

**Full-Stack Developer - MERN Stack** **April 21 - Present**

**Prologics IT solution**

- Working on iMake- Production Solution Application
- iMake provides a comprehensive production management platform developed using the MERN stack.

**RAN Engineer Intern** **Nov 2024-Feb 2025**

**ZTE Lanka (Pvt) Ltd. | Colombo, Sri Lanka**

- Optimized RAN performance, reduced call drop rates, improved network stability, and resolved telecom system issues to enhance reliability and minimize downtime.

**Software Engineer Intern** **Nov 2023-Feb 2024**

**South Asia Gateway Terminals (Pvt) Ltd. | Colombo, Sri Lanka**

- Oversaw SQL Server Enterprise administration, including query optimization, performance tuning, and ETL pipeline design to enhance data processing and management efficiency.

## EDUCATION

**BSc. Eng. (Hons), Specializing in Electrical and Information Engineering** **(2020 - 2025)**

Department of Electrical and Information Engineering, Faculty of Engineering, University of Ruhuna.

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, C++, JavaScript, SQL, HTML/CSS

**Frameworks & Libraries:** React, Node.js, Flutter, Flask, Django

**Database Management:** MySQL, MongoDB, Firebase

**Data Analysis Tools:** Excel, Power BI, KNIME

**Tech Stack:** VS Code, NetBeans, Android Studio, MATLAB, Jupyter Notebook, Postman, Swagger

## PUBLICATIONS

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### Research Paper Publication

Oct 2024

Co-authored and published the research paper "Detection of Nutrient Levels for Plantations via Machine Learning" at the APIIT International Research Conference.

## PROJECTS

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### Detection of Nutrient Levels for Plantations via Machine Learning

Feb 2024-Oct 2024

**Technologies:** Vision Transformer Model, Python, Flutter, Django Framework, ArcGIS Software

- Developed a Flutter-Django mobile app integrating a Vision Transformer model (deployed on Hugging Face Inference) for real-time nutrient deficiency detection in tea leaves.
- Utilized ArcGIS to map geotagged images, visualizing soil diagnosis and deficiency zones across tea cultivation areas.

[https://github.com/NamalChandrasekara/Tea\\_Leaf\\_Scanner.git](https://github.com/NamalChandrasekara/Tea_Leaf_Scanner.git)

### Hotel Room Booking Web Application

Dec 2022 - Sep 2023

**Technologies:** MERN Stack (React, Node.js, MongoDB, Express), Postman

- Built a full-stack MERN hotel booking app with room search, booking management, secure payments, and API testing via Postman for backend validation.

[https://github.com/AmilaThiwanka/HotelBooking\\_FrontEnd.git](https://github.com/AmilaThiwanka/HotelBooking_FrontEnd.git)

### Bicycle Rental System

Feb 2024-Apr 2024

**Technologies:** Java, Spring Boot, MySQL, Postman

- Developed a Bicycle Rental System with QR code booking, dummy payment gateway, admin panel, and API testing using Postman.

<https://github.com/NamalChandrasekara/Bicycle-Rental-System.git>

### E-Store Management System

Feb 2022-Apr 2022

**Technologies:** SQL, MySQL

- Designed an optimized e-store database using MySQL, applying ER modeling, normalization, and advanced SQL queries for efficient data management and retrieval.

### Bank Management System

Oct 2023-Dec 2023

**Technologies:** C, C++

- Developed a C++ console-based Bank Management System with features like account creation, fund transactions, balance checks, and multi-account handling through a user-friendly interface.

<https://github.com/SupunTd/Bank-Management-System-Project.git>

## LEADERSHIP & ACTIVE ENGAGEMENTS

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- IESL Committee Member: Ruhuna Engineering Student Chapter

Jan 2021-Feb 2022

- Batch Representative: 3<sup>rd</sup> year

Dec 2022-Jan 2024

Department of Electrical and Information Engineering, Faculty of Engineering, University of Ruhuna.

- Sports: Badminton, Carom, Billiards

## REFERENCES

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### Dr. G.G.N. Sandamali

Senior Lecturer

Dept. of Electrical and Information Engineering

Faculty of Engineering, University of Ruhuna

+94719693318

[nadeesha@eie.ruh.ac.lk](mailto:nadeesha@eie.ruh.ac.lk)

### Dr. Thilina Weerasinghe

Senior Lecturer

Dept. of Electrical and Information Engineering

Faculty of Engineering, University of Ruhuna

+94768343786

[thilina@eie.ruh.ac.lk](mailto:thilina@eie.ruh.ac.lk)