



# Nelith Kodagoda

Computer Science Undergraduate

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LinkedIn | [NelithKodagoda](#)

Github | [NelithKodagoda](#)

Portfolio | [NelithKodagoda](#)

## About Me

A creative and dedicated Computer Science undergraduate with hands-on experience in full-stack development, real-world projects, and competitive hackathons. Skilled in building responsive web and mobile applications, with strengths across both front-end and back-end development (full stack), UI/UX design, and foundational DevOps practices. Passionate about clean code, continuous learning, and solving real problems through software. Keen interest in machine learning, scalable architecture, and QA.

## Skills

### Technical Skills

- Object-Oriented Programming, Concurrent Programming, Full Stack Development, Machine Learning

### Programming Languages & Frameworks

Java, Python, JavaScript, TypeScript, HTML, CSS, Angular, Three.js, Next.js, React, Framer Motion, React Native, Flutter, Tailwind CSS, Bootstrap, Material UI, Spring Boot, Node.js, ASP.NET, NestJS, Express Js

### Databases

MySQL, MongoDB

## Soft Skills

Communication Skills: Strong verbal and written communication in Sinhala and English.

- Collaboration: Effective in teamwork and cross-functional projects.

## Projects

### Modde - Software Development Group Project

Sep 2024- Mar 2025

Developed a mobile app using a CNN-based AI model to identify clothing from photos and recommend similar items from local retailers, integrating computer vision with e-commerce. Integrated AWS S3 for image storage and implemented CI/CD pipelines using GitHub Actions for automated deployment.

Tech Stack: React, React Native, Expo, Next.Js, NestJS, Node.JS, Python, Flask ----- [Github Link](#)

### ShireMind(Group Project)

Mar 2025(on-going)

Built a cross-platform mobile and web mental health app with a smart booking system, enabling users to find and schedule appointments with psychiatrists and counselors based on location, specialization, and user preferences—focused on accessibility and seamless user experience.

Tech Stack: ASP.NET Core, .NET MAUI PostgreSQL ----- [Github Link](#)

### Real-time Ticket Management System-Full Stack Development

Sep 2024- Dec 2024

Developed a real-time ticketing system with multi-threading support for concurrent sales across multiple vendors and customers. Implemented the Producer-Consumer pattern and synchronization techniques to ensure data consistency and prevent race conditions during high-volume transactions.

Tech Stack: Java, Spring Boot, React ----- [Github Link](#)

### Book Store API Management System-Back End Development

Feb 2025 – Apr 2025

Built a RESTful API using Java and JAX-RS to manage books, authors, customers, carts, and orders. Applied core REST principles with JSON handling, proper HTTP methods, and resource-based URLs. Included custom exception handling and tested all endpoints using Postman.

Tech Stack: Java ----- [Github Link](#)

### Breast Cancer Mortality & Survival Prediction-Machine Learning

April 2025

Developed a machine learning system to predict breast cancer mortality and survival using the SEER dataset. Implemented classification (Naïve Bayes, Logistic Regression, KNN) and regression (Decision Trees) models with data preprocessing, hyperparameter tuning, and performance evaluation using ROC AUC, MAE, and R<sup>2</sup>.

Tech Stack: Python, scikit-learn, pandas, NumPy, Matplotlib, Seaborn, Google Colab ----- [Github Link](#)

## Real-Time Chat Application – MERN Stack Project

Mar 2025(on-going)

Built a full-stack chat application with real-time messaging, enabling instant communication between users through bi-directional channels.

Implemented secure user authentication, dynamic chat room management, and live message updates for seamless interaction.

Tech Stack: React, Node.js, Express, MongoDB, Socket.IO

[Github Link](#)

## Real Estate Website

Dec 2024- Jan 2025

Developed a responsive real estate web app with search filters, interactive UI, image galleries, and smart bookmarking. Integrated Google Maps for location insights and implemented CSP-based security and HTML encoding for enhanced protection and user experience.

Tech Stack: React, Bootstrap

[Github Link](#)

## Education

### University of Westminster, Department of Computing-2nd Year

Sep 2023-Present

- BSc(Hons) Computer Science(Informatics Institute of Technology(IIT Sri Lanka))

Module Taken:

Year 1(Level 4): Mathematics for Computer Science, Computer Systems Fundamentals, Software Development I, Software Development II, Web Design and Development

Year 2(Level 5): Database Systems, Object Oriented Programming, Software development group project, Advanced Client Side, Client Sever Architecures, Machine Learning and Data Mining

### Rahula College Matara

- G.C.E. Advanced Level – Physical Science Stream
- G.C.E. Ordinary Level

Feb 2023

Dec 2018

## Certificates

Java Programming Course at SITEC(Southern Information Technology Center)

28th Aug 2023

Python Programming Course from SITEC

28th Oct 2023

Introduction to Front-End Development by Meta

3rd Sep 2024

Programming Foundations-Object Oriented Programming on LinkedIn Learning

11th Dec 2024

Learning Spring with Spring Boot on LinkedIn Learning

11th Dec 2024

React Essential Training on LinkedIn Learning

30th Dec 2024

Machine Learning with Python: Foundations on LinkedIn Learning

28th Feb 2025

React Native Essential Training on LinkedIn Learning

1st Mar 2025

## Achievements

Participated in IEEE Organized CodeRally 5.0 24-hour hackathon

Participated in IEEE Organized Xtreme Encode Competition

## Extracurricular activities

Former Technician in School Media Unit

Former Player in School Badminton Team

Former member of School Photography Club

## References

### Sachini Pathinayaka

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### Anushka Erranga

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### G.A Pubudu Janith

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