



# AKILA LOCHANA

COMPUTER SCIENCE UNDERGRADUATE

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<https://www.linkedin.com/in/akilalochana/>



<https://github.com/Akilalochana>



<https://medium.com/@akilalochana7>

## PROFILE

I am a Computer Science graduate who transforms complex challenges into innovative solutions through rapid learning and adaptability. I am driven by a passion for applying technology to solve real-world problems while continuously expanding my technical expertise.

Portfolio: <https://akilalochana.vercel.app/>

## EDUCATION

Bsc(Hons) Computer Science      2023 - Present  
Informatic institute of Technology

GCE Ordinary Level(O/L) – 2019, Central College Anuradhapura  
Achieved Grade 8As

GCE Advanced Level(A/L) – 2022, Central College Anuradhapura  
Achieved 3 Credential(C) in Mathematics Stream

## TECHNICAL SKILL

Frontend – HTML, CSS, React, NEXT js, kotlin

Backend – Node js, Express, NEXT js, Kotlin

Databases - MySQL, MongoDB

## PROJECT EXPERIENCE

### Hotel Booking Web Application | MERN Stack [\(Live Demo\)](#)

Developed a fullstack hotel booking platform using MongoDB, Express, React, and Node. js with secure JWT authentication, Google login, and role based access control.

- RESTful API: Designed and implemented robust APIs for managing rooms, bookings, and user reviews
- Admin Dashboard: Enabled admins to add, update, or block rooms and users, and approve or moderate reviews.
- Image Handling: Integrated Supabase for efficient and scalable image storage.
- AI Integration: Deployed an AI powered chatbot using TinyLlama (RAG) and automated sentiment analysis for review moderation.
- Automation: Reviews are automatically approved or sent to admin panel based on sentiment analysis
- Mobile Responsive: Ensured a seamless user experience across devices.

[GitHub: Frontend](#) | [GitHub: Backend](#) | [Chatbot: Hugging Face](#) | [Review Automation: Hugging Face](#)

## Property Search Web Application | React ([Link](#))

A responsive interface was created that allows users to search for properties by multiple criteria, including property type, price range, number of bedrooms and date added. Advanced search functionality was implemented with multiple simultaneous filter criteria. Responsive UI was created with responsive components for optimal display across devices. Interactive property detail pages were built with responsive tabs for image galleries and property information.

GitHub Link- <https://github.com/Akilalochana/react-CW>

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## BirthdayCard Selling Web Application (MERN Stack) | ([Live Demo](#))

**Tech Stack:** MongoDB | Express.js | React.js | Node.js | JWT Auth | Tailwind CSS

An e-commerce platform to create, customize, and sell birthday cards. The app supports two user roles:

- Admin: Manage users, orders, products (cards), and site content
  - User: Browse, personalize, and order birthday cards
- Secure login and dashboard access is implemented using JWT-based authentication for both admins and users.

GitHub : [Backend](#) | [Frontend](#)

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## Agriculture Based - Mobile App | Kotlin ([Demo video](#)) IIT Cutting Edge 2025 – 1<sup>st</sup> place *Technical Lead & ML Developer*

Developed an innovative agricultural price prediction system that demonstrates profit potential even in small-scale farming operations. Engineered an Autoregressive (AR) prediction model achieving high accuracy in forecasting agricultural commodity prices. Implemented Firebase backend for realtime data storage and retrieval, with seamless integration to Kotlin-based frontend. Established CI/CD pipeline using GitHub Actions for automated testing and deployment to Firebase hosting. Project received **92%** evaluation score and recommendation for academic publication.

GitHub Link - <https://github.com/Akilalochana/Software-Development-Group-Project->

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<b>CERTIFICATIONS</b>	IIT Cutting Edge 2025 – 1 <sup>st</sup> place
	Selected as finalist for NBQSA National ICT Awards based on project excellence
	Learning Java 17 Certificate - 2024 - <a href="#">Link</a>
	National Mathematics Olympiad Competition – 2017

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<b>EXTRACURRICULAR ACTIVITIES</b>	Senior Prefect (2021 - 2022) – Central College, Anuradhapura
	Student Parliament Minister (2021) – Central College, Anuradhapura

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<b>REFERENCE</b>	G.A. Pubudu Janith. Assistant lecturer, Email:pubudu.a@iit.ac.lk, Contact Number: +94 77 1274857	Ravindu Nethmina wanasinghe Engineer - Cloud Operations Udumulla, passage, Nugegoda +94-766504653