

# NADEEKA SACHINTHANA ALAHAKOON

Undergraduate

## CONTACT

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<https://github.com/NadeekaSA>

## TECHNICAL SKILLS

- Programming Languages: Java, PHP, JavaScript, SQL
- Web Development: HTML5, CSS3, PHP, MySQL, React (basic)
- Mobile Development: Flutter, Firebase Integration
- Database Management: MySQL, MongoDB (basic)
- Tools & Platforms: Git/GitHub, phpMyAdmin, NetBeans, VS Code

## SKILLS

- Problem-Solving
- Adaptability in fast-paced environments
- Quick learner with commitment to continuous improvement
- Effective communication and interpersonal skills

## LANGUAGES

- English
- Sinhala

## PROFILE

Results-driven Software Engineering undergraduate (BSc Hons) with a solid foundation in software development, database management, and system design. Proficient in PHP, MySQL, Java, and Flutter with Firebase integration, with practical experience in building web-based and mobile applications. Demonstrates strong problem-solving skills, attention to detail, and the ability to work effectively in team-oriented and fast-paced environments. Eager to contribute technical expertise and a commitment to continuous learning in a professional setting.

## EDUCATION

### Bsc(Hons) Software Engineering (Undergraduate)

Cardiff Metropolitan University

2023 - PRESENT

### ICET Certified Developer Diploma

2025/5 - PRESENT

ICET - Institute of Computer Engineering Technology

### Diploma In Information & Communication Technology

2023/5 - 2023/11

ICBT Campus

Grade - Merit

### GCE Advanced Level

2022(2023)

Stream - Combined Maths (Non)

- Information & Communication Technology - C
- Physics - S

## RELEVANT EXPERIENCES (PROJECTS)

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### Brightway LMS | Full-Stack Web Application

- Developed a full-stack web application using PHP and MySQL to digitize library operations for educational institutions.
- Engineered distinct, role-based dashboards for librarians (manage books, students, checkouts, generate PDF reports) and students (browse catalog, view checkouts).
- Implemented secure user authentication with password hashing and an activity logging system for security and auditing.
- Technologies: PHP, MySQL, HTML, CSS, JavaScript, FPDF

GitHub Repository:

<https://github.com/NadeekaSA/Library-Management-System>

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### ZooParc | Dynamic Organizational Website

- Designed and developed a dynamic website for a fictional zoo using PHP and MySQL to boost visitor engagement and streamline operations.
- Built a public-facing site with features like an animal gallery, event listings, and online forms for volunteer registration and member login.
- Created a secure admin panel for content management, allowing staff to easily update events and educational materials.
- Technologies: PHP, MySQL, HTML5, CSS3, JavaScript

GitHub Repository:

<https://github.com/NadeekaSA/ZooParc-Web>

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### City Nursing Home Management System | Java Desktop Application

- Architected a multi-role desktop application using core Java OOP principles to automate nursing home operations for managers, consultants, and cashiers.
- Implemented a structured 3-layer architecture (GUI, Business Logic, Data Access) for maintainability and separation of concerns.
- Developed role-specific dashboards with features including patient management, billing calculations, and user account management.
- Engineered a custom file-based data persistence layer to handle user credentials, patient records, and consultant logs.

GitHub Repository:

[https://github.com/NadeekaSA/city\\_nursing\\_home\\_management\\_system](https://github.com/NadeekaSA/city_nursing_home_management_system)

Resort Management  
for Lucky Resort  
A/Pura | Flutter &  
Firebase App

- Engineered a full-stack mobile application for resort staff to manage bookings, track room occupancy, and generate bills in real-time.
- Utilized Firebase Cloud Firestore for seamless data synchronization and implemented automated billing logic based on room type and stay duration.
- Technologies: Flutter, Dart, Firebase (Cloud Firestore)

GitHub Repository:

[https://github.com/NadeekaSA/resort\\_frontdesk\\_management\\_system](https://github.com/NadeekaSA/resort_frontdesk_management_system)

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- Built a dynamic React application to manage tasks with features for adding and removing items from a list.
- Implemented state management to handle user input and task lists, along with form validation to prevent empty submissions.
- Technologies: React, JavaScript, HTML, CSS

GitHub Repository:

<https://github.com/NadeekaSA/To-do-list->

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React To-Do List  
Application

## REFERENCES

### **Awishka Shashindu**

Senior Lecturer at ICBT Campus

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### **Priyanga Siriwardana**

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