



# KOSALA DANESHWARA ATHAPATHTHU

Software Engineering  
Undergraduate

## ◎ TARGET ROLE

### Intern

- Backend • Full-Stack • Android
- Database • IOT System

## 👤 PROFILE

Detail-oriented undergraduate with hands-on experience building full-stack web apps, Android apps, and microservices. Strong in **REST APIs**, **HTML, CSS, PHP**, and clean coding practices.

## 📞 CONTACT

- 📞 +94 71 914 8762
- ✉️ kosalaathapaththu1234@gmail.com
- 📍 Colombo, Sri Lanka
- 🔗 linkedin.com/in/kosala-d-athapaththu-a453b9248
- 💻 github.com/kosaladathapththu

## EDUCATION

### Higher National Diploma in Software Engineering

2024 – Present

NIBM (National Institute of Business Management)

### Diploma in Software Engineering

2023 – 2024

NIBM (National Institute of Business Management)

### G.C.E. Advanced Level (Physical Science)

## TECHNICAL EXPERTISE

**Languages** Java, PHP, C#, SQL / PL-SQL, JavaScript, Python

**Frameworks** Spring Boot, React, Android (Java), HTML5, CSS3

**Databases** Oracle, MySQL, SQLite, Firebase, MongoDB

**Tools** Git, GitHub, Postman, REST APIs, Microservices

**Concepts** OOP, SOLID Principles, Agile/SDLC, API Design

## SELECTED PROJECTS

### Personal Financial Management System (PFMS)

PHP | Oracle | SQLite | PL/SQL | Cloud Sync

🔗 - [github.com/kosaladathapththu/Personal-Financial-System](https://github.com/kosaladathapththu/Personal-Financial-System)

- Built budgeting and reporting modules with a clean, normalized database structure.
- Implemented database automation using **PL/SQL** logic (procedures & triggers).
- Designed a cloud sync mechanism for seamless local and cloud data handling.

### Hotel Management System (Microservices)

Spring Boot | React | MySQL | 5 Microservices + UI Service

🔗 - [github.com/kosaladathapththu/Hotel-Management-System](https://github.com/kosaladathapththu/Hotel-Management-System)

- Developed a distributed system using **5 microservices** and **1 UI service** (6 services total).
- Implemented room and booking workflows through clean service-to-service APIs.

### Hostel Management System

PHP | HTML | CSS | MySQL

🔗 - [github.com/kosaladathapththu/Hostel-Management-System](https://github.com/kosaladathapththu/Hostel-Management-System)

- Developed a hostel management web system with database-driven modules and reports.
- Implemented CRUD features and structured MySQL tables for residents and inventory.

## LANGUAGES

- Sinhala (Native)
- English (Working Proficiency)

## INTERESTS

Backend Engineering  
Database Optimization  
Cloud Computing  
IoT Systems

## WORK STYLE

- Collaborative Team Leader
- Clean & Maintainable Code
- Continuous Learner
- Responsible & Punctual

## REFERENCES

Available on request.

## PROJECTS (CONTINUED)

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### PizzaMania Android Application

Java | Firebase | SQLite | Google Maps API

 - [github.com/kosaladathapththu/PizzaMania](https://github.com/kosaladathapththu/PizzaMania)

- Developed a food ordering flow with real-time cart updates using Firebase.
- Integrated Google Maps for automated branch detection and navigation.
- Built an admin panel for order tracking and product management.

### Landslide Early Warning System from IoT

Arduino | ESP8266 | MPU6050 | Firebase

 - [github.com/kosaladathapththu/Landslide\\_Detection-IOT](https://github.com/kosaladathapththu/Landslide_Detection-IOT)

- Engineered a system collecting sensor data (tilt, vibration, moisture) pushed to Firebase.
- Built a web dashboard for live environmental monitoring and instant alerts.
- Designed multi-level sensor logic to trigger early warning decisions.

### River Trash Collector Robot

Arduino | Ultrasonic | Servo | HX711

 - [github.com/kosaladathapththu/Trash-Collecting-Robot-For--River](https://github.com/kosaladathapththu/Trash-Collecting-Robot-For--River)

- Programmed obstacle detection and automated trash collection logic using C++.
- Integrated HX711 load cells to measure trash weight and display status on an LCD.
- Designed the robotics control flow for real-world prototype testing.

### Library Management System

C# | SQL Server

 - [github.com/kosaladathapththu/LibraryManagementSystem](https://github.com/kosaladathapththu/LibraryManagementSystem)

- Developed a C# application for managing books, members, and issue/return workflows.
- Implemented structured CRUD operations and validation for reliable record handling.

## CERTIFICATIONS

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- ✿ **Oracle Data Platform 2025 Certified Foundations Associate** – Oracle (Dec 2025)
- ✿ **Developing Microsoft Azure Solutions** – Microsoft Learn (Jul 2025)
- ✿ **HackerRank SQL (Basic) & Java (Basic)** – HackerRank (Jan 2025)
- ✿ **Agile Project Management Foundation** – HP LIFE (Jan 2025)