

# Tharushi Cooray

## Computer Science Undergraduate

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### PROFILE

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Motivated Computer Science undergraduate with a strong foundation in front-end and back-end development using Java, JavaScript, Python, MySQL, and Spring Boot. Passionate about building scalable applications and solving real-world problems. Seeking an internship opportunity to gain hands-on experience in the software industry while contributing to innovative and impactful projects. Eager to apply technical expertise and collaborate effectively within a dynamic development team.

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### EDUCATION

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IIT   BSc (Hons) Computer Science	Colombo Wellawatte   <b>September 2023 – Present</b>
Loyola College   A/L Examination	Negombo, Daluwakotuwa   <b>February 2023</b>
<ul style="list-style-type: none"><li><b>Result:</b> 3Ss</li></ul>	
Loyola College   O/L Examination	Negombo, Daluwakotuwa   <b>December 2019</b>
<ul style="list-style-type: none"><li><b>Result:</b> 8As &amp; 1B</li></ul>	

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### SKILLS

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- Technical Skills:**
  - Languages:** Java, Python, PHP, HTML/CSS, JavaScript
  - Frameworks:** ReactJS, NodeJS, Express, Spring Boot
  - Database:** MongoDB, MYSQL
  - Tools & Technologies:** Git, IntelliJ IDEA, Visual Studio Code
  - Software Development:** Object-Oriented Programming (OOP), Data Structures, Multithreading
- Soft Skills:** Analytical, Problem-solving, Team Collaboration, Communication, Adaptability

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### ACADEMIC PROJECT EXPERIENCE

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#### Book Store API (Java)

(2025 Feb – 2025 April)

- Developed a RESTful Bookstore API using Java/JAX-RS with CRUD operations for books, authors, and customers, adhering to strict non-framework requirements.
- Implemented shopping cart and order processing with in-memory storage, showcasing clean architecture and business logic.
- Designed comprehensive API documentation with Postman test cases, emphasizing contract-first development.
- Unique for pure JAX-RS implementation, highlighting core Java backend proficiency.

## **Pet Healthcare Management System (ReactJS, NodeJS, MongoDB – Web Application)**

(Sep 2024 – Present)

- Developed PetLife, an innovative web app using ReactJS for the frontend with features like health tracking, appointment scheduling, and digital vaccination records.
- Integrated Google Calendar API for real-time booking management of veterinary doctors and care centers.
- Implemented secure authentication and data management using Node.js, Express, and MongoDB.
- Designed a responsive UI using React.js, ensuring seamless navigation and user engagement for channeling pages.

## **Real-Time Ticketing System (Java – Spring Boot, ReactJS)**

(Sep 2024 – Dec 2024)

- Designed and developed a real-time ticket booking system using Java (Spring Boot) and React.js.
- Implemented a multi-threaded Producer-Consumer pattern to handle concurrent ticket processing efficiently.
- Integrated MongoDB for data storage and developed an error-handling mechanism for reliability.
- Built a CLI-based Java version to support command-line ticket booking.

## **Plane Ticket Booking System (Java)**

(2024 Feb – 2024 March)

- Developed a console-based flight ticket booking system in Java.
- Applied object-oriented programming principles to handle reservations, cancellations, and seat availability.
- Implemented efficient data structures for optimizing search and booking operations.

## **Student Grading System (Python)**

(2023 Nov – 2023 Dec)

- Developed a Python-based grading system to automate student grade calculations.
- Implemented data validation, grading logic, and report generation.
- Improved efficiency by reducing manual grading efforts.

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## **EXTRACURRICULAR ACTIVITIES**

- Participant, Hult Prize OnCampus Program (Global social entrepreneurship competition).
- Participant, Coderally 5.0 Hackathon (24-hour coding competition by IEEE Computer Society - IIT).
- Member, IEEE Student Branch - IIT.
- Member, Senior Western Band at Loyola College.

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## **REFERENCES**

**Miss Uvini Abeyasinghe**  
Assistant Lecturer –  
School of Computing  
Informatics Institute of Technology  
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