

Thathsara P. Thalangama

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SUMMARY

I am an undergraduate Software Engineering student with a strong foundation in Java, experience in JavaScript frameworks, and hands-on expertise in building scalable systems under different architectures including microservices. Completed a full-stack development role involving frontend, backend, integration, and deployment. Also, experienced in machine learning and deep learning, dedicated to contributing to impactful development projects.

EDUCATION

Undergraduate in B.Sc. (Hons) in Information Technology specializing in Software Engineering,
2025,
Sri Lanka Institute of Information Technology (SLIIT), Malabe.
CGPA – 3.12

WORK EXPERIENCE

Full Stack Developer Intern

DoMedia

(08/2024–03/2025)

- **Form Spam Filter Development**
 - Built a JavaScript anti-spam library for the company using dynamic honeypots, hidden fields, user behavior tracking, and scoring system to block fake form submissions, reducing server load and preventing DDoS attacks.
- **Frontend Development**
 - Developed responsive frontends using technologies including Vue.js and collaborated with UI/UX designers to deliver high-quality products on time.
- **Backend Development**
 - Collaborated with senior developers on new features for the DoCloud SaaS app using PHP and conducted research and testing to enhance product quality.
- **Design, development & Research**
 - Designed a scalable ER diagram for an Inventory Management System using the Entity-Value-Attribute (EVA) pattern.
 - Created interactive animations with the GSAP library, supported by in-depth research on SVG elements and behaviors.
 - Enhanced and debugged a custom anti-spam filter by analyzing browser technologies and various form submission methods.

SKILLS

Theoretical Skills

- OOP concepts
- SOLID principles
- Microservices
- Design Patterns
- SDLC
- Web Sockets
- Message Queues
- Cloud Computing

Language Skills

- JAVA
- JavaScript
- Python
- C++
- SQL
- PL/SQL

Frameworks & Technologies

- NextJS
- ReactJS
- VueJS
- Tailwind CSS
- GSAP
- NodeJS
- Docker
- AWS

PROJECTS EXPERIENCE

LexAyudha – AI-Based Personalized Rehabilitation Tool for Dyslexic Adolescents

(11/2024–05/2025)

- A **web-based** solution for Dyslexic and Dyscalculic adolescents to overcome learning challenges.
- Architecture: Microservices.
- **Individual Contribution:**
 - Personalized speech pace module development.
 - Development of hybrid CNN-RNN deep learning model for speech pace estimation.
 - API Gateway development & Microservice integration.
 - Logging & Monitoring microservice implementation.
 - Internal server communication via message queues.
 - UI interface theme selector component.
- **Technologies :** MongoDB, ReactJS, NodeJS, Flask, RabbitMQ, Tailwind CSS, TensorFlow, TanStack Query, JWT, Docker.

Falconverse – Real Time Privacy Focused Chat Application using Web Sockets

(05/2025–05/2025)

- A **web-based** chat application with End-to-End encryption using web sockets, deployed on Render.
- **Technologies :** NextJS, Docker, Web Sockets, GitHub Actions, Render .

Online Gym Management System

(01/2023–06/2023)

- A **web-based** solution for efficient gym management.
- Architecture: Monolith
- **Individual Contribution:**
 - User management system.

- **Login & Sign-Up.**
- Sessions, and cookie handling mechanisms.
- **Module integration, Testing and debugging.**

- **Technologies :** MongoDB, Express, ReactJS, NodeJS, CSS, JSX, JWT, React-Bootstrap, JavaScript

SafetyNet - Industrial-Workspace-Automation-System Project

(02/2024 - 03/2024)

- An industrial workspace automation system built upon the OSGi Framework.
- **Technologies Used:** JAVA, OSGI Framework.

COURSEWORK

- | | |
|---|---|
| • Object Oriented Programming | • Database Systems |
| • Software Process Modeling | • Case Studies in Software Engineering |
| • Information Systems & Data Modeling | • Software Project Management |
| • Internet & Web Technologies | • Distributed Systems |
| • Software Engineering | • Application Frameworks |
| • Database Management Systems | • Software Engineering Process & Quality Management |
| • Computer Networks | • Software Architecture |
| • Operating systems & System Administration | • Secure Software Development |
| • Mobile Application Development | • Deep Learning |
| • Data Structures & Algorithms | • Machine Learning |
| • Probability & Statistics | • Current Trends in Software Engineering |
| • User Experience Engineering | |

LANGUAGES

English - Professional Working Proficiency

Sinhala - Native Proficiency

REFERENCES

Prof. Samantha Thelijagoda

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