THULANI MAGEDARA

INTERN SOFTWARE DEVELOPER/ FULLSTACK DEVELOPER

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ABOUT ME

Developer skilled in Java, React, Spring Boot, and SQL, with hands-on experience in building full-stack applications, IoT systems, and AR-based solutions. Experienced in RESTful API development, database design, and Agile methodologies, with a track record of delivering efficient, user-focused software in collaborative environments. Recognized for leadership in academic and technical communities and the ability to deliver practical digital solutions.

EDUCATION

BSc (Hons) in Electronics and Computer Science   **2026 Graduation**

University of Kelaniya

GPA: 3.54 (up to 3rd year)

Relevant Coursework:

- Software Engineering
- Database Management System
- Machine Learning & AI
- IoT Systems & Embedded Systems
- Industrial Automation

- Enterprise Application Development with Java
- Data Structures and Algorithms
- Object-Oriented Programming with Java

PROJECTS

"Sigiri Yathra" - Augmented Reality for Cultural Heritage: Reconstructing the Lost Kingdom of Sigiriya

- Integrated computer vision models with Unity Barracuda to recognize 5 key landmarks in Sigiriya, achieving 90% recognition accuracy during testing.
- Displayed 5 interactive 3D reconstructions with info panels, improving cultural heritage learning engagement by 70% in usability tests.
- **Tech Stack:** Unity, C#, ONNX, Unity Barracuda, Blender, Agisoft Metashape

Fetch Me Home - Web-based Pet Adoption platform

- Built a platform for the Humane Society of University of Kelaniya, enabling browsing by breed, type, and location.
- Implemented secure adoption workflows and an admin dashboard, reducing manual adoption request handling by 60%.
- **Tech Stack:** React.js, Spring Boot, MongoDB, REST API, Docker

InvoiceMate – Retail Management System

- Developed a billing system enabling 100% digital invoice generation with automated tax calculations, reducing manual errors by 30%.
- **Tech Stack:** Java, Swing, React, MySQL, REST API, iText PDF

Easy Park - Smart Car Parking System (IOT Project)

- Designed an IoT prototype that improved parking slot detection accuracy to 95%, minimizing search time for users.
- Built a mobile app displaying real-time slot availability, improving parking allocation efficiency by ~40% in testing environments.
- **Tech Stack:** Arduino, C, IoT Sensors, Embedded Systems

SKILLS

- **Programming Languages:** Java, C, C#, JavaScript, SQL
- **Web Development:** HTML, CSS, ReactJS, Spring Boot
- **Backend Services:** Spring Framework, Spring MVC, RESTful APIs, Swagger, OOP
- **Databases:** MySQL, MongoDB
- **Cloud & DevOps:** AWS, Docker
- **Tools & Platforms:** Git, GitHub, Postman, IntelliJ IDEA, VS Code, Figma
- **Other Skills:** Agile/Scrum, IoT Systems, UML Diagrams, Team Leadership, Communication, Problem-Solving

PUBLICATIONS

Federated Learning for Privacy-Preserving Cyberbullying Detection - Abstract Publication
5th Global Conference on Children and Youth, Oxford, UK – Mar 2025
[**Link**: Abstract]
Co-authors: D.S.P. Shashitha Udesh De Silva, R. Sithumi Bhagya

- Proposed federated learning techniques to preserve children's privacy in AI-powered cyberbullying detection systems.

VOLUNTEERING

President   2024 - 2025
Humane Society of University of Kelaniya

Vice President   2023 - 2024
Humane Society of University of Kelaniya

Secretary   2023 - 2024
KelaniSTEAM of University of Kelaniya

Industry Relations Lead   2023 - 2024
Electronics and Computer Science Club of University of Kelaniya

Organizing Committee Vice President for Partnership Development - CEO 2.0   2023
AIESEC in University of Kelaniya

REFERENCES

Dr. (Mrs.) B.M.T. Kumarika
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Faculty of Science,
University of Kelaniya.
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