Kasun Jayamaha *(software engineering undergraduate)*

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Profile Summary

Enthusiastic and self-motivated undergraduate with a strong interest in **mobile app development**, **IoT systems**, and **full-stack web technologies**. Gained hands-on experience with the **MERN stack** through academic coursework and projects. Currently dedicating time to building personal projects in **IoT (ESP32, Firebase)** and **Flutter** to deepen practical skills. Passionate about applying technology to solve real-world problems, with a strong desire to learn and contribute to innovative software solutions. Comfortable working both independently and collaboratively in dynamic environments.

Education

- BSc (Hons) in Information Technology Specialize in Software Engineering
  Sri Lanka Institute of Information Technology (SLIIT), Malabe (Expected Graduation in June 2026)
- GCE Advance Level -Thurstan College, Colombo 07 - Results- 2C,1S (English Medium)
- GCE Ordinary Level -St. Joseph's College, Nugegoda - Results- 5A, 3B, 1S (English Medium)

Technical Skills

- **Languages**: Java, C, C++, Python, Dart, TypeScript
- **Web & Frameworks**: HTML, CSS, Tailwind CSS, JavaScript, MERN Stack, Next.js, NestJS
- **Mobile & IoT**: Flutter, Firebase, ESP32 (personal projects)
- **Databases**: MySQL, MongoDB, Firebase, Prisma ORM
- **Core Concepts**: Object-Oriented Programming (OOP), REST APIs, Microservices, Agile Methodologies

Projects

- Quick Grubs (Food Delivery Management Platform) - A full stack food delivery platform using microservices for restaurants, delivery, and payment services.
- Smart Home test project - A smart home project using ESP32 and Firebase for real-time control of home appliances using a relay module. (mobile app - flutter)
- World Explorer (Country details searching application) - A Frontend App That allows users to search for countries and view detailed information using REST Countries API *-live link*
- Personal Finance Tracker – Backend development for managing user finances including income, expenses, and analytics.
- Nourish Lanka (Food Donation Management System) - A donation-based system to connect food donors with NGOs and underprivileged communities.
- PawPal (Pet Care and Adoption App) - A mobile-first platform to adopt pets, get vet advice, and manage pet care routines. (flutter)
- Laundry Pro (Laundry Management System) - Java-Servlets based system for managing laundry services, including user management and order tracking.
- Personal Portfolio Web - A responsive portfolio website built using Next.js and Tailwind CSS to showcase personal projects and skills.
- ESP32 Research Project - A collection of personal ESP32-based IoT experiments for self-learning. Continuously updated with code, circuit diagrams, and explanations.

Certificates

- AI/ML Engineer Stage-1 Certification – Centre for Open and Distance Education, Faculty of Computing, SLIIT

Technical Writing & Blogs

- **Blog:** medium.com/@ks2005755– Sharing insights on IoT, ESP32, Firebase, and beginner-friendly tech tutorials.

Soft skills and Languages

- **Skills:** Problem-Solving, Critical Thinking, Teamwork, Leadership, Adaptability, Effective Communication, Time Management, Decision-Making, Agile Collaboration
- **Languages:** English (Professional), Sinhala (Native)