

Keerthihan Murugathas

Software Engineering Intern

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Objective

Motivated and proactive second-year BSc (Hons) Information Technology undergraduate with a strong passion for backend development and scalable web applications. Skilled in Java, JavaScript, and full-stack development using the **MERN** stack. Experienced in building real-world applications with React, Node.js, Express.js, and MongoDB. Familiar with Agile practices, software development concepts, and API integration. Strong team player with solid communication, analytical thinking, and a drive to learn and implement new technologies in dynamic environments.

Technical Skills

Languages: Java, JavaScript (ES6+), Python, C, C++, SQL, HTML/CSS

Frameworks/Libraries: React.js, Node.js, Express.js, Tailwind CSS

Databases: MongoDB, MySQL

Mobile: Kotlin, Android Studio (XML)

Tools: Git, GitHub, VS Code, Vite, R Studio

Concepts: OOP, Data Structures & Algorithms, AI/ML Fundamentals

Soft Skills: Analytical Thinking, Communication, Teamwork

Main Projects

Hospital Management System (MERN Stack) | Year 2, Semester 2

Client: Evergreen Hospital | Academic Project

Built a digital platform to replace manual processes, reducing appointment wait times by 30% and eliminating double bookings.

Implemented real-time doctor scheduling to optimize resource utilization and prevent overbooking.

Digitized patient medical records for instant access, replacing error-prone paper files.

Developed an inventory tracking system with low-stock alerts, cutting supply shortages by 40%.

Tech: React (Vite), Node.js, Express, MongoDB | Collaborated with hospital staff to align with workflows.

Mobile Finance Tracker App (Kotlin + Android Studio) | Year 2, Semester 2

Built a personal finance tracker with expense logging, budget alerts, and data persistence using SharedPreferences and internal storage.

Developed a bookstore app (additional module) with user-friendly UI and local data management.

Tech: Kotlin, Android Studio, XML

Pharmacy Management System (Full-Stack Java) | Year 1, Semester 2

Created a CRUD-enabled web app for pharmacy inventory, supporting product management, stock tracking, and sales records.

Implemented secure authentication and responsive UI for admins and staff.

Tech: Java, Servlets, JSP, MySQL, HTML/CSS

Antique Shop E-Commerce Website (PHP + MySQL) | Year 1, Semester 2

Designed a responsive online store with admin panels, product listings, and customer accounts.

Enabled secure admin logins, product search, and order management.

Tech: PHP, MySQL, HTML5, CSS3, JavaScript

Education

BSc (Hons) in Information Technology

Expected Graduation: 2027

Sri Lanka Institute of
Information Technology

Current Year: Year 2, Semester 2

Certifications

Professional Certificate in Artificial Intelligence : Informatics Institute of Technology