



Tharusha Rathnayaka

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● ABOUT ME

I am a highly adaptable and enthusiastic professional with a strong passion for learning new technologies and methods. I excel in diverse project environments, having contributed to the development of web applications utilizing **Python , Next JS, PHP, MERN/PERN Stack, AI/ML , React Native and MySQL**. Beyond academic work, I've designed, built, and deployed real world projects including production grade systems for actual clients giving me hands on experience with the full development lifecycle from planning to deployment. I have played an integral role as a hardworking team member and am known for my quick learning abilities. I am committed to staying ahead in a rapidly evolving industry and ready to take on any work immediately while continuing to learn and grow.

● SKILLS

Technical Expertise

React | Springboot | python | php | Node js | MySQL | java | Next js | Linux | Databases (MongoDB MySql PostgreSQL) | Machine Learning | Express js | aws | Deep Learning | n8n | YOLO | Django | Fastapi

Tools

slack | jira | Git | Docker

● WORK EXPERIENCE

INTERN SOFTWARE ENGINEER – DIGITALBEE LABS – 23/03/2026 – 23/09/2026 – MALABE, SRI LANKA

- Assisted in the development and UI implementation of cross-platform mobile applications using **Flutter** and **Dart**, ensuring smooth cross-device performance.
- Built performant, SEO-friendly, and modern web applications leveraging **Next.js** and **React.js** with server-side rendering (SSR) and API routes.
- Developed custom **WordPress plugins** using **PHP** to implement custom business logic, automate tasks, and extend core system functionality.
- Conducted on-page and technical **Search Engine Optimization (SEO)** across multiple web properties, improving site architecture, page load speeds, and search engine rankings.
- Designed and integrated secure **RESTful APIs** to facilitate seamless data communication between frontend clients, mobile apps, and backend services.
- Collaborated with team members using **Git/GitHub** for version control, continuous integration, and streamlined release deployments.

INTERN FULL STACK WEB DEVELOPER – IT SIGNATURE – 01/01/2025 – 01/08/2025 – KOLLUPITIYA, SRI LANKA

- Responsive web interfaces and user portals for **Learning Management Systems (LMS)** using **React.js**, JavaScript, HTML5, and CSS3.
- Developed secure backend business logic and RESTful API endpoints utilizing **PHP** to handle course delivery, user registration, and assessment modules.
- Designed, optimized, and maintained relational database schemas, indexes, and complex queries using **MySQL** for efficient data handling.

- Implemented core web security protocols, including role-based access control (RBAC), data encryption, input validation, and protection against common vulnerabilities (SQL injection, XSS, CSRF).
- Managed web hosting environments, server configurations (cPanel / Apache / Nginx), SSL certification setup, and domain DNS routing.

● EDUCATION AND TRAINING

31/05/2022 – 31/05/2026 Malabe, Sri Lanka

BSC (HONS) IN IT SPECIALIZING IN INFORMATION TECHNOLOGY Sri Lanka Institute of Information Technology

Website <https://www.sliit.lk/>

● PUBLICATIONS

2026

MaizeGenie Mobile Platform for Sustainable and Profitable Corn Cultivation

Developed a computer vision-based maize pest identification and control system using object detection and image classification. The system identifies pests from images and provides lifecycle-based control recommendations to farmers. This work was published at IEEE SCSE 2026 as part of the MaizeGenie research project.

Journal Name: University of Kelaniya (SCSE) | **Publisher:** IEEE

● PROJECTS

MaizeGenie – AI-Powered Mobile Platform for Sustainable Corn Cultivation

- Developed the Corn Pest Identification and Control component of an AI-powered mobile application for maize farmers.
- Applied computer vision, object detection, and image classification to identify maize pests from uploaded images.
- Provided pest lifecycle information and stage based control recommendations in Sinhala and English.
- Contributed to mobile application development and the integration of machine learning services.

Link <https://ieeexplore.ieee.org/document/11499778>

B2B Foodservice Ordering Platform | Java, Spring Boot, React, TypeScript, PostgreSQL, Redis, Docker

- Built a full stack B2B ordering platform for restaurants to browse products, manage carts, place orders, and track order history.
- Developed RESTful APIs using Spring Boot, Spring Security, Spring Data JPA, and PostgreSQL with layered controller, service, repository architecture.
- Implemented customer authentication, admin product management, role-based access control, CSRF protection, and Redis backed server side sessions.
- Built a React + TypeScript frontend with catalog search, pagination, cart quantity updates, checkout flow, and admin order fulfilment views.
- Containerized the application with Docker Compose and configured GitHub Actions CI/CD for backend tests, frontend builds, image validation, and VPS deployment.

Link <https://react-spring.tharushadev.online/>

SEO Audit & Scraping Platform | Python, Django, Next.js, PostgreSQL, Celery, Redis

- Built a full stack SEO audit tool that crawls client websites and generates automated reports covering on page SEO, Core Web Vitals, broken links, and keyword rankings.
- Developed an async scraping pipeline using Celery + Redis to run audits as background tasks, integrating Google PageSpeed Insights API for real time mobile/desktop performance scoring.
- Developed a branded PDF report generator (pdfkit + wkhtmltopdf) enabling downloadable client ready audit reports with issue categorization by severity (Critical, Warning, Info)
- Implemented JWT based multi user authentication, SERP keyword rank tracking via SerpAPI, and a React/Next.js dashboard with live audit status polling and historical audit management.

Multi Tenant CRM System | Django, React (TypeScript), PostgreSQL, AWS S3

- Designed a production ready multi tenant architecture with full organization level data isolation and JWT authentication.
- Implemented role based access control (Admin, Manager, Staff) and automated activity logging via Django signals for audit tracking.
- Integrated AWS S3 for file storage and built a protected routing React frontend with Zustand for state management.

User Management System | Java, Spring Boot, Spring Data JPA, MySQL

- Built RESTful APIs for creating, viewing, updating, and deleting user records using Spring Boot.
- Structured the backend with controller, service, and repository layers, using Spring Data JPA to persist data in MySQL.
- Used DTOs and ModelMapper to handle data between the API and database.

Salon Management SaaS Platform | React, TypeScript, Tailwind CSS, Supabase

- Developed a multi tenant SaaS product covering appointment scheduling, invoicing, and customer & staff management.
- Secured tenant data isolation with Row Level Security (RLS) and role based access via Supabase Auth.
- Built an analytics dashboard with CSV/PDF export for business reporting.

Universal POS System | Electron.js, React, SQLite

- Built a cross platform, offline first desktop POS system supporting multiple business types (grocery,restaurant, retail).
- Implemented real time inventory tracking, a sales analytics dashboard, and receipt printing.
- Packaged and distributed as native installers for both Windows and Mac.

AI Agent Workflow Automation | OpenAI Chat Model, OpenWeatherMap API, Webhooks

- Designed an AI powered agent with memory management for automated, context aware responses
- Integrated external APIs and webhook triggers to enable real time conversational and weather query workflows

● LANGUAGE SKILLS

Mother tongue(s): **SINHALA**
Other language(s): **ENGLISH - PROFESSIONAL WORKING PROFICIENCY**

I am committed to delivering secure, efficient, and scalable IT solutions while continuously enhancing my knowledge and contributing to team success. I thrive in dynamic environments and bring a strong blend of technical expertise, problem-solving ability, and collaborative spirit to every role I undertake

10/09/2026