

Tharin Jayasekara

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Education

University of Moratuwa <i>B.Sc. (Hons) in Information Technology (CGPA: 3.72 / 4.00)</i>	2024 - Present
S. Thomas College, Mount Lavinia <i>Physical Science (Result: 3As)</i>	2014 - 2022

Projects

Auto Parts E-Commerce Platform | *Group Project | React, Node.js, Express, MongoDB, Docker* [🔗 Link](#) [🐙 GitHub](#)

- Built a vehicle fitment system with registration-number lookup via an external API, cascading year/make/model selection, and vehicle-based parts filtering to surface compatible products.
- Implemented secure authentication with JWT, OTP-based email verification, password reset using hashed tokens, and role-based authorization with Zustand-persisted client-side state management.
- Built a persistent shopping cart with optimistic UI updates, real-time backend synchronization, inventory reservation, and full CRUD operations using Zustand and MongoDB.

University Event Management System | *Spring Boot, Spring Security, Spring Data JPA, PostgreSQL, Flyway, Lombok, React, TypeScript, Tailwind CSS, AWS EC2* [🔗 Link](#) [🐙 GitHub](#)

- Built a full-stack university event management platform with Spring Boot REST APIs and React + TypeScript, using a layered architecture (Controller → Service → Repository) with DTO-based request/response handling.
- Implemented JWT-based authentication with Spring Security, event CRUD with category-based filtering, PostgreSQL persistence via JPA, and schema versioning with Flyway migrations.
- Deployed the full-stack application on AWS EC2, configuring the Spring Boot backend, React frontend, PostgreSQL database, and Nginx as a reverse proxy.

TaskBoard — Full-Stack Kanban Task Management App | *Next.js, Express.js, MongoDB, Docker, AWS* [🔗 Link](#) [🐙 GitHub](#)

- Built a full-stack Kanban task management application using Next.js 15, React 19, Tailwind CSS v4, Express.js, and MongoDB, featuring drag-and-drop task management, responsive UI, and an interactive admin panel.
- Implemented secure authentication and RBAC, using JWT, email-based OTP verification via SMTP, bcrypt password hashing, and role-based permissions for task visibility, assignment, and management.
- Containerized and deployed the application on AWS EC2 using Docker Compose and Nginx with HTTPS (Let's Encrypt), and established a GitHub Actions CI/CD pipeline for automated testing, GHCR image builds, and zero-downtime deployments.

Portfolio | *Next.js* [🔗 Link](#) [🐙 GitHub](#)

- Built a responsive personal portfolio using Next.js with reusable React components and scroll-triggered animations.

Travel destination sharing app | *MERN* [🐙 GitHub](#)

- Developed a MERN-based platform where users can create accounts and share travel destinations with images and location details.

- Built an interactive React quiz application with timed multiple-choice questions, real-time answer validation, and automated score calculation.

- Developed a full-stack e-commerce web application using PHP, MySQL, HTML, CSS, and JavaScript, implementing user authentication, product management, and core online shopping functionality.

Technical Skills

Languages: JavaScript, TypeScript, Java, C

Frameworks & Libraries: React.js, Next.js, Tailwind CSS, Node.js, Express, Spring Boot

DBMS: MongoDB, PostgreSQL, MySQL, MSSQL

Tools & Platforms: Git, GitHub, Docker, AWS, Nginx, Postman

Concepts: Data Structures & Algorithms, Object-Oriented Programming, REST APIs

Certifications

AWS Cloud Practitioner Essentials  — AWS