

Pasan Vithanage

Associate Software Engineer



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Profile

Motivated Software Engineering undergraduate with hands-on experience in ERP development, full-stack engineering, and test automation. Skilled in **Java, JavaScript, SQL/PLSQL, Spring Boot, and the MERN Stack** for building scalable web applications and REST APIs. Experienced with **React, Tailwind CSS, Material UI, Framer Motion**, and mobile development using Android Studio. Proficient in testing tools such as **Selenium, Jest, and JUnit**, and CI/CD tools including **GitHub Actions and Jenkins**. Strong in problem-solving, UI/UX thinking, and collaborating in Agile teams.

Professional Experience

IFS R&D International Pvt Ltd

Associate Software Engineer 09/2025 – Present

Software Engineer Intern

11/2024 –

08/2025

- Worked in the **Aviation Maintenance Department** using the Aurena Framework, Java, SQL, and PL/SQL to enhance and maintain core ERP modules.
- Developed and customized **Aurena client pages, projections, and API integrations**, improving usability and system performance.
- Implemented **Enhanced Search and CUD functionality**, including UI updates, backend logic, datamart queries, and supporting projections.
- Contributed to building the **Baseline and Actual Loaders**, developing validations, backend logic, and error-handling during data import flows.
- Implemented inventory-related capabilities such as **lock/unlock operations and capability updates**, covering both UI behavior and backend logic.
- Built and optimized **datamart views** to improve search performance and data delivery for UI components.
- Resolved **20+ defects** across fault management, loaders, and inventory by adjusting Aurena configurations, SQL queries, and PL/SQL logic.
- Automated environment testing and reporting using **Jenkins CI/CD**, and supported Selenium regression execution.
- Used **Grafana, Jenkins, and Bamboo** for monitoring, troubleshooting, and maintaining overall system stability.
- Collaborated using **Bitbucket and Jira** within Agile sprints, participating in daily stand-ups, code reviews, design discussions, and sprint ceremonies.

Veryality, Freelance Roblox Game Developer

01/2025 –

- Built interactive gameplay systems using Lua, OOP, and the Knit framework.
- Integrated Firebase to manage player progress and live game data.
- Delivered multiple gameplay improvements that enhanced player experience and system stability.

Projects

Inventory & POS System, MERN Stack

- Developed a tyre & spare parts inventory management and point-of-sale system.
- Implemented CRUD operations, real-time stock validation, invoice printing, and reporting modules.
- Built an interactive cart system with stock restrictions and automated balance calculations.
- Used MongoDB for scalable data storage, React + Tailwind for modern UI, and Express/Node.js for backend APIs.

Food Delivery Web Application, MERN Stack

- Group project replicating a real-world food delivery platform.
- Developed restaurant listings, menu browsing, order placement, and cart management.
- Integrated order tracking, payment simulation, and user authentication.
- Built with React (frontend), Node.js/Express (backend), and MongoDB (database).

Study Abroad Management System, MERN Stack

- Designed and implemented a student data management platform for a study abroad agency.
- Features included student registration, application tracking, CRUD operations, and reports for admin users.
- Integrated authentication & role-based access control, ensuring secure handling of student records.
- Enhanced usability with a responsive React frontend and backend APIs built in Node.js/Express.

TaskMate (Mobile App), Android Studio

- Built a task management mobile application.
- Designed UI prototypes in Figma and converted them into a responsive mobile interface.

Countries Web App, React, Tailwind, Framer Motion

- Developed an interactive web app powered by the REST Countries API.
- Implemented search, region filtering, and detail pages with live statistics and Wikipedia integration.
- Added dark/light themes, animations with Framer Motion, and styled components with Tailwind CSS.
- Wrote Selenium UI tests and Jest unit tests for frontend and API validation.

Online Event Planning System, Java, MySQL

- Group project applying OOP concepts to design and build an event management system.
- Supported event creation, scheduling, attendee registration, and budget tracking.
- Built a modular architecture using Java Swing and JDBC for database connectivity.

Online Library Management System, HTML, CSS, JavaScript, PHP, MySQL

- Full-stack group project for book cataloging, borrowing, and membership management.
- Designed a responsive web interface using HTML, CSS, and JavaScript.
- Implemented server-side logic in PHP with secure database queries in MySQL.

Financial Tracker REST Backend, Express.js, React

- Developed a fully functional REST API to support a financial tracker application.
- Integrated open-source currency conversion APIs to enable real-time multi-currency transactions.
- Designed secure endpoints for expense tracking, budgeting, and reporting.
- Wrote Jest unit and integration test cases to ensure reliability and maintainability.

Education

BSc (Hons) in Information Technology Specialising in Software Engineering, Sri Lanka Institute of Information Technology 01/2023 – Present
Current GPA: **3.49**

Certificate in information technology, Esoft Metro Campus, Anuradhapura 01/2022 – 07/2022

GCE A/L - 2019 (Science Stream)

GCE O/L - 2016, A9

Skills

Programming Languages

Java, JavaScript, Python, PHP, Go, TypeScript, SQL

Databases

Oracle, MongoDB, MySQL

Testing and Quality Assurance

Selenium, JUnit, Jest, API Testing, Test Automation, CI/CD Test Pipelines

Game Development

Roblox (Lua, Knit Framework, Firebase)

Game Development

Roblox Studio, Lua, Knit Framework, Firebase Integration

DevOps and Tools

Git, GitHub, GitHub Actions, Jenkins, Bitbucket, Bamboo, Docker, Grafana, Postman, JIRA, Trello

UI/UX

Figma, Canva, Wireframing, Prototyping

Soft Skills

Problem Solving, Troubleshooting, Critical Thinking, Time Management, Team Collaboration, Communication, Ability to Work Under Pressure

References

Dinul Dassanayake, Senior Software Engineer, IFS R&D International Pvt Ltd
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Theja Jayarathne, Senior Lead Project Manager, IFS R&D International Pvt Ltd
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