

Jathuja Sithamparanathan

Software Engineer Intern

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📍 Jathuja Sithamparanathan 📍 Batticaloa, Sri Lanka

Profile

Third-year undergraduate pursuing a BSc (Hons) in Information Technology at the University of Moratuwa, with hands-on experience building full-stack web and cross-platform mobile applications, RESTful APIs, and AI-integrated systems. Skilled in modern frontend frameworks, backend development, mobile application development, database design, and API integration through academic and personal projects. Strong interest in software engineering, web and mobile development, and applied artificial intelligence, with a keen eye for building practical, user-focused solutions.

Education

BSc (Hons) Information Technology

University of Moratuwa

Faculty of Information Technology | CGPA: 3.30 / 4.00

GCE Advanced Level – Non-Stream

BT/Vincent Girls' High School

Results: ABC

Physics | Combined Mathematics | Information and Communication Technology

Technical Skills

Programming Languages: Java, Python, C, C++, JavaScript, TypeScript, Dart, PHP

Web Technologies: Angular, React, HTML, CSS, Tailwind CSS, PrimeNG, RxJS, REST APIs

Mobile Development: Flutter, Dart, Cross-Platform App Development, Provider (State Management), Secure Local Storage, REST API Integration

Backend Technologies: Spring Boot, FastAPI, Node.js, Express.js

Databases & Data Technologies: PostgreSQL, MySQL, MS SQL Server, MongoDB, ChromaDB

AI & Machine Learning: RAG, LangChain, LLM Integration, Vector Databases

Development Tools: Git, GitHub, Visual Studio, Postman, Android Studio

Cloud & Storage: Supabase

Software Development: Agile Methodology, Object-Oriented Programming, API Development, WebSockets, Cross-Platform Development, State Management

Projects

TravelHub – Multi-Role Travel Booking & Management Platform

[GitHub Repository](#)

- Full-stack platform connecting tourists, travel agencies, hotel owners, and admins to browse, book, and manage travel packages, hotels, and vehicles, with integrated online payments and an AI travel assistant.
- **My Contribution:** Built the Hotel Owner Module end-to-end – hotel listing CRUD with an admin-approval workflow, room/amenity management with image uploads to Supabase Storage, and a dashboard with real-time occupancy and rating analytics. Designed and integrated an AI chatbot using a RAG pipeline (LangChain, Groq LLM, ChromaDB) with intent detection for live backend queries, an event-driven auto-sync service, and real-time USD/LKR currency conversion.
- **Tech:** Java, Spring Boot, Spring Security (JWT), Spring Data JPA, PostgreSQL, Flyway, Python, FastAPI, LangChain, Groq LLM, ChromaDB, React, TypeScript, Supabase

PlanNex – Cross-Platform Task & Project Management Platform (Ongoing)

[GitHub Repository](#)

- Full-stack, cross-platform task and project management system built around a shared FastAPI + MongoDB REST API, consumed by both a React web application and a Flutter mobile application.
- **Web Application:** Implemented JWT and Google OAuth2 authentication, Kanban-style drag-and-drop task boards, project/milestone tracking, calendar views, and real-time WebSocket notifications.
- **Mobile Application:** Independently designed and developed a Flutter mobile client for the same backend, implementing secure JWT authentication with encrypted token storage and auto-login, task and project CRUD operations, status/priority filtering, derived task views including overdue, upcoming, and today's tasks, calendar-based task views, and light/dark theming using the Provider pattern for state management.
- Designing and developing the complete platform independently, including the backend, web application, and mobile application.
- **Tech:** React, TypeScript, Tailwind CSS, Flutter, Dart, Provider, FastAPI, MongoDB, JWT, WebSockets, REST API

ResolveX – Smart Service Request & Issue Management System (Ongoing)

 [GitHub Repository](#)

- Developed a full-stack platform for submitting, managing, and resolving service requests and issues with role-based access.
- **My Contribution:** Developed reusable Angular modules for Comments, Activity Timeline, and Admin Analytics Dashboard, with REST API integration and interactive data visualizations.
- **Tech:** Angular, TypeScript, Tailwind CSS, PrimeNG, RxJS, Node.js, Express.js, PostgreSQL, REST APIs, JWT

Certifications

- Introduction to Cloud 101 – Amazon Web Services (AWS) [[Certificate](#)]
- Developing Frontend Apps with React – IBM, Coursera [[Certificate](#)]
- Get started with GitHub Copilot – Microsoft [[Certificate](#)]
- Generate documentation using GitHub Copilot tools – Microsoft Learn [[Certificate](#)]
- Introduction to HTML, CSS and JavaScript – Coursera [[Certificate](#)]
- Python for Beginners – University of Moratuwa [[Certificate](#)]
- Web Design for Beginners – University of Moratuwa [[Certificate](#)]

Languages

English: Fluent **Tamil:** Native

Leadership & Extracurricular Activities

Company Panel Coordinator – UTE CAT Flagship Fair [[View on LinkedIn](#)]

- Coordinated company panel activities and supported communication and event-related arrangements.

References

Adshayani Pirapaharan

Lecturer, University of Moratuwa

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Jathukulan

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