

AMIRU MALLAWARACHCHI

ASPIRING SOFTWARE ENGINEERING INTERN | JAVA • SPRING BOOT • FULL-STACK • AI SYSTEMS

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ABOUT ME

Final-year BSc (Hons) Software Engineering student at ICBT Campus, Colombo (Cardiff Metropolitan University), graduating February 2027 and seeking a software engineering internship. I chose software engineering over the finance path my family expected, and back that choice by building: a Spring Boot ticketing platform, an MCP-based multi-agent travel planner, and a LangGraph multi-agent wellbeing platform. My current focus is advancing my knowledge of evaluating and monitoring AI systems.

EXPERIENCE

Customer Service Executive – Bellvantage (Pvt) Ltd, Colombo

Jul 2023 – Feb 2024

- Supported Sampath Bank's credit-card recovery operations: 100–150 outbound calls a day about payment due dates, working within banking compliance and data-privacy rules.
- Logged every interaction and payment agreement in an internal CRM, which is where I first learned to handle sensitive personal data carefully.

PROJECTS

MindLens – Multi-Agent AI Wellbeing Platform | Python • FastAPI • LangGraph • Groq • Pinecone • MongoDB • Next.js

Code: github.com/AmiruMallawarachchi/mindlens • Live: mindlens-theta.vercel.app

- Built the full system alone as a bounded LangGraph supervisor graph (safety, assessment, memory recall, retrieval, specialist, reviewer) that never makes more than three LLM calls on a normal turn, by designing explicit nodes and conditional edges.
- Made crisis handling deterministic, with vetted templates and no model call, by running a rule-based safety check on every message before the graph reaches any LLM.
- Kept user data private and every run traceable, by anonymizing PII before each Groq and Pinecone call, keeping conversations out of the vector store, and tracing runs in Langfuse without prompts or user IDs.

Solvix – Enterprise Ticketing & Operations Platform | Java 17 • Spring Boot 3 • PostgreSQL • Next.js • Docker

Code: github.com/AmiruMallawarachchi/solvix • Live: solvix-amiru.vercel.app

- Gave customers a private view of their own tickets and support agents control of all of them, by securing the REST API and web app with JWT authentication, BCrypt-hashed passwords and role-based access.
- Guaranteed every ticket follows a six-stage lifecycle with a full activity history, by enforcing transitions in the domain layer and shipping it with Flyway migrations, GitHub Actions CI and a live Vercel, Render and Neon deployment.

TripWeaver – MCP-Based Multi-Agent Travel Planner | FastAPI • LangGraph • FastMCP • Next.js • Supabase

Code: github.com/AmiruMallawarachchi/multi-agent-travel-planner • Live: multi-agent-travel-planner-jet.vercel.app

- Answered travel requests from live flight, hotel, weather and currency data instead of model guesses, by routing each one through a LangGraph router to one of seven specialist agents over six FastMCP services.
- Kept each agent limited to its own tools and each user's chats private, by enforcing least-privilege tool access and Supabase email and Google login, and shipping with CI and offline tests on Vercel and Render.

EDUCATION

BSc (Hons) Software Engineering – Cardiff Metropolitan University (ICBT Campus, Colombo)

Expected Feb 2027

Higher National Diploma in Computing (Merit) – ICBT Campus, Colombo

Completed

GCE Advanced Level – St. Sebastian's College, Moratuwa

2019

CERTIFICATIONS & ACHIEVEMENTS

- AI Engineering Bootcamp 2.0 – STEM Link, Outstanding distinction (Aug 2026)
- Introduction to LangChain – LangChain Academy (Apr 2026)
- Team Leader, EXITO'26 Exhibition – led a 5-person team building the Automated Presidential Election System; selected from Batch 124 to present to industry professionals, ICBT Campus (Jul 2026)

Languages: English (bilingual proficiency) • Sinhala (native)

TECHNICAL SKILLS

Languages: Java 17, Python, TypeScript / JavaScript, SQL, PHP

Backend & Data: Spring Boot, MVC architecture, JPA / Hibernate, Flyway, JWT auth, FastAPI (async), REST APIs, pytest, PostgreSQL, MySQL, MongoDB, Pinecone

Frontend (working knowledge): React, Next.js, Tailwind CSS

Tools: Docker, Git / GitHub Actions, Vercel, Claude Code, Cursor, GitHub Copilot

AI / LLM Engineering: LangGraph, LangChain, MCP, RAG, Groq API, Langfuse tracing, prompt and agent design