

Molinda Mihiranga

14/A/1, Aluth Ela Road, Badulla | +94 743872722 | molindamihiranga17@gmail.com |
molindamihiranga17.github.io | linkedin.com/in/molinda-mihiranga | github.com/MolindaMihiranga17

EDUCATION

Sri Lanka Institute of Information Technology (SLIIT)	Malabe, Sri Lanka
Bachelor of Science in Information Technology (Specialized in IT)	2022 – present
Badulla Central College	Badulla, Sri Lanka
Science Stream (Mathematics)	2013 – 2021

EXPERIENCE

Raxwo Pvt Ltd	Remote, Sri Lanka
Software Engineering Intern	April 13, 2026 – October 13, 2026

Gymora: Multi-Tenant SaaS Gym Management Platform

React 18, Vite, Node.js, Express.js, MongoDB, Mongoose, Socket.IO, JWT, PayHere, Google Gemini API, Zod

- Designed and built a full-stack, multi-tenant SaaS gym management platform supporting Super Admin, Gym Owner, Coach, and Member roles with dedicated dashboards, permissions, and JWT-based access control.
- Developed comprehensive gym operations including member and coach lifecycle management, membership subscriptions, workout and meal plan assignment, attendance tracking, and automated account status updates on membership expiry.
- Implemented a POS and inventory management system supporting member and walk-in sales, real-time stock updates, sales returns, printable bills, automated email receipts, and low-stock monitoring.
- Integrated PayHere for gym subscription payments, SMSLenz and Nodemailer for automated SMS/email notifications, and Google Gemini API for AI-powered platform features.
- Built automated notification and audit logging systems covering expiring memberships, payment issues, low stock, trial expirations, and owner/coach activities, with real-time functionality through Socket.IO.
- Developed client-side PDF and Excel reporting using jsPDF, jspdf-autotable, and XLSX for financial, attendance, member, and inventory data.

RaxwoLMS: Multi-Tenant Learning & Institute Management Platform

Next.js 16, React 19, TypeScript, MongoDB, Mongoose, Tailwind CSS, AWS S3, JWT, Zod, ExcelJS, Recharts

- Architected a multi-tenant SaaS platform serving multiple tuition institutes from a single codebase, with strict server-side tenant isolation and role-based access control across Super Admin, Institute Admin, Institute Staff/Teacher, and Student roles.
- Developed core academic LMS modules including courses, modules, lessons, quizzes, assignments, grading, examinations, attendance, class scheduling, and student learning progress tracking.
- Built institute financial modules for fee management, concessions, payments, expenses, and bank ledger tracking, alongside a separate platform-level subscription, invoicing, finance, and bank reconciliation system for institute billing.
- Integrated AWS S3 using presigned URLs for secure file storage and implemented PDF and Excel reporting, audit logging, announcements, privacy request handling, and administrative system tooling.
- Adopted a Server Actions architecture with dedicated data-access and mutation layers, custom JWT authentication, Zod validation, and reusable UI components for maintainable and type-safe application development.

Projects

Vetty: Smart Recruitment Platform with AI Screening [GitHub](#) [Live Website](#)

ASP.NET Core, Go, Python FastAPI, React, TypeScript, PostgreSQL, Redis, SignalR, Cloudflare R2, Docker

- Architected a polyglot microservices monorepo seven ASP.NET Core services, two Python/FastAPI AI services, and two Go services sharing one PostgreSQL instance and Redis for caching and async events.
- Built the Go api-gateway as the platform's single public entry point, handling JWT validation, rate limiting,

CORS, and reverse proxying (with WebSocket passthrough) to every backend service.

- Developed the recruiter web dashboard (React 19 + TypeScript, TanStack Query, Zustand) with a drag-and-drop Kanban pipeline, candidate deep-dive pages with AI/match scores and skill-gap breakdowns, and a bias detection UI.
- Built matching-service, a semantic candidate ranking engine using sentence-transformer embeddings, and an async screening-service that scores resumes for AI fit and bias flags.
- Implemented real-time messaging (SignalR) and an e-signature offer flow with PDF generation, Cloudflare R2 storage, and a SHA-256-hashed audit trail; deployed the full stack via GitHub Actions to free-tier hosting.
- Deployed the live platform with the React frontend on Cloudflare Pages and 11 containerized backend services on Render, using Neon PostgreSQL, Upstash Redis, Cloudflare R2 object storage, and GitHub Container Registry; GitHub Actions uses path-based change detection to build and redeploy only modified services.

HydroGuardian: Smart Hydroponic System [GitHub](#)

React Native, Expo, FastAPI, TensorFlow, CNN+LSTM, ESP32, WebSockets, PyJWT

- Built an AI-driven automated hydroponic fodder system for Sri Lankan farmers, with ESP32 IoT integration for real-time sensor monitoring (temperature, humidity, pH, EC, TDS) and actuator control over a WebSocket gateway.
- Developed a full-stack Expo React Native mobile app (15+ screens) covering onboarding, a setup wizard, live monitoring dashboards, and energy tracking, built from 8 reusable UI components.
- Built the FastAPI backend with JWT authentication, Swagger/Redoc API docs, and a WebSocket gateway for ESP32 device discovery, health monitoring, and real-time data broadcasting, including ESP32-CAM streaming.
- Implemented multi-modal plant disease detection (CNN+LSTM), seed quality identification, and RL-based energy consumption optimization.

SpendWise: Personal Finance & Vehicle Tracker [GitHub](#)

React Native, Expo, Go, Spring Boot, Python FastAPI, Apache Kafka, PostgreSQL, Redis, Kong, AWS

- Designed an event-driven microservices backend (Auth in Go, Finance in Spring Boot, Vehicle in Go/Gin, Notifications+AI in FastAPI) behind a Kong API gateway, with all inter-service communication over Apache Kafka topics.
- Built a dedicated vehicle expense module fuel log with auto-calculated efficiency and cost-per-km, maintenance history, and Sri Lanka-specific reminders publishing events consumed by the Finance service so costs post automatically with no double-entry.
- Implemented AI-powered spending insights and fuel anomaly diagnostics via the Anthropic Claude API, streamed to the mobile app in real time over SSE.
- Built the reminder and push notification engine (APScheduler, Expo Push API) with deep-linking, and designed the offline-first Expo app (Expo SQLite, Zustand + TanStack Query) with a freemium paywall.

SKILLS

Languages:	Java, C, C++, JavaScript, TypeScript, Go, Python, PHP, Kotlin, SQL
Web & Mobile:	React.js, React Native, Next.js, Express.js, Node.js, ASP.NET Core, Spring Boot, FastAPI
Database & Messaging:	PostgreSQL, MongoDB, MySQL, Redis, Apache Kafka
Cloud & Infra:	Docker, Kong, Cloudflare R2, AWS, GitHub Actions
Developer Tools:	Git, R Studio, PowerBI, Trello, Jira, Playwright

REFERENCES

Mr. Uditha Senavirathna

+94 77 761 5403
Senior Tech Lead
Intervest Software Technologies (Pvt) Ltd

Mrs. Arundika Gunarathne

Head of Department of Marketing Management
+94 775176904
arundika@kiu.ac.lk
Faculty of Management, KAATSU International University