

Dilmith Pathirana

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Professional Summary

Motivated 3rd-year Software Engineering undergraduate with strong skills in OOP, Data Structures and Algorithms, cloud fundamentals, and full-stack development. Experienced in Java, Python, SQL, React, and modern frameworks. Skilled in Agile/Scrum collaboration, SDLC participation, writing technical documentation, and working with global, cross-functional teams. Passionate about learning and contributing to scalable engineering solutions.

Education

B.Sc. (Hons) in Software Engineering	2023–Present
Sri Lanka Institute of Information Technology (SLIIT)	Current GPA: 3.31 (Eligible for 1-year internship)
G.C.E. A/L – Combined Maths, Physics, ICT	2020–2022
Bandarawela Central College	
G.C.E. O/L – 5A's, 4B's	2009–2019
Bandarawela Central College	

Technical Skills

Programming: Java, Python, JavaScript, TypeScript, PHP, C, C++ **Core:** OOP, DSA, Algorithm Complexity **Web:** React, Next.js, Tailwind CSS, Node.js, JSP/Servlets, WordPress **Databases:** MySQL, PostgreSQL, MariaDB **Tools:** Git/GitHub, Docker, AWS (Basics), Linux, CI/CD, Agile/Scrum **Other:** Power BI (Beginner), REST APIs, UI/UX, SEO

Certifications

- Oracle Certified Professional – MySQL 8.0 Database Administrator
- MySQL Implementation Certified Associate
- Java Fundamentals – Udemy (2024)
- Python for Beginners – Udemy (2024)
- Exploring AIOps – LinkedIn Learning (2024)

Projects

CallSense – AI Call Analytics Platform	Next.js, TypeScript, AI/ML	<i>Full-Stack Developer</i>
• Built enterprise-grade SaaS for automated call center QA using AssemblyAI (STT, sentiment).		
• Designed real-time analytics dashboards with Chart.js and cloud audio processing via GCP.		
• Implemented authentication (Clerk), Supabase DB, and scalable Next.js 15 architecture.		
YOLOv8 Planogram Analysis System (Ongoing)	AI/ML, Computer Vision	<i>Full-Stack + ML Developer</i>
• Developed CV pipeline to detect products on retail shelves using YOLOv8.		
• Built Flask API + Next.js 15 frontend with real-time detection and shelf share analytics.		
• Supports brand classification for 10+ FMCG brands and competitive shelf-share calculations.		
• Deployed with Docker + Gunicorn for production-ready scaling.		
NeuroChair – IoT Ergonomic Monitoring System	Python, IoT, MQTT, Docker	<i>Full-Stack IoT Engineer</i>
• Designed cloud-based microservice architecture with Docker Compose and MQTT messaging.		
• Built Plotly Dash dashboards for real-time stress, posture, and ergonomic insights.		

- Implemented MongoDB time-series storage and multi-role user views.

Smart Car Rental System

Java 21, Spring Boot, MySQL *Backend Developer*

- Implemented RESTful APIs with Spring Boot 3.2 and Spring Security 6.
- Built admin dashboards, fleet management logic, booking flows, and OpenPDF invoices.
- Designed Thymeleaf frontend with responsive UI.

MeetMind AI – SaaS Platform

Next.js, PostgreSQL, OpenAI

- Built subscription platform with AI-driven analytics, coaching, and payment integration.
- Managed CI/CD pipelines and AWS deployment.

Vibin Music Store – Java Web App

JSP/Servlets, MySQL

- Created full-stack MVC application with authentication, playlists, and admin portal.

Whisper Sinhala-English Transcription API

Python, FastAPI, Transformers *ASR Engineer*

- Built production-ready FastAPI ASR service using Whisper-small-sinhala (fine-tuned).
- Implemented code-mixing handler for Sinhala-English speech using dictionary-based mapping.
- Added real-time + timestamped transcription endpoints with optimized beam search.
- Containerized with Docker and CPU-optimized inference.

VerbaSense – Multilingual Speech Recognition Web App

Next.js, GCP, React *Full-Stack + Speech Engineer*

- Developed multilingual STT platform with Google STT V2 + Chirp model.
- Implemented diarization for up to 6 speakers with 90
- Built real-time recording UI with Web Audio API + cloud processing via GCS.
- Modern UI using Tailwind v4 + shadcn/ui and state management with Zustand.

Experience

Product Development Intern — SynthiaSync (Pvt) Ltd

Jul 2025 – Present *Hybrid*

- Contributed to Salesforce-based and AI-integrated enterprise platforms.
- Participated in Agile ceremonies, SDLC tasks, documentation, and feature refinement.
- Worked with global teams on scalability, testing, non-prod setups, and monitoring.

Soft Skills

Communication, teamwork, problem-solving, adaptability, global collaboration

Languages

English (Fluent), Sinhala (Native)

References

Available upon request.