

Jerome Thayananthajothy

Technical Lead | AI-Driven Systems Architect | AWS & Full-Stack Expert | Open Source Contributor

Colombo, Sri Lanka | tjthavarshan@gmail.com | thavarshan.com
linkedin.com/in/thavarshan | github.com/Thavarshan

Professional Summary

Technical Lead and AI-driven systems architect with more than a decade of experience building scalable platforms, modernizing full-stack architectures, and leading cloud delivery. Experienced across AI workflows, semantic search, developer tooling, and high-volume commercial systems, with a practical focus on performance, observability, and helping engineering teams ship confidently.

Core Expertise

Leadership: Technical leadership, Architecture reviews, Engineering standards, Mentoring, Product thinking
AI & Architecture: Generative AI, LangGraph, Semantic search, Microservices, Event-driven systems
Full Stack: React, Vue, TypeScript, Node.js, Laravel, PostgreSQL
Cloud & Delivery: AWS, Docker, Kubernetes, CI/CD, Observability

Experience

Technical Lead <i>Sino Lanka Group</i> — Colombo, Sri Lanka	May 2026 – Present
- Driving architecture direction across full-stack systems, AI capabilities, and cloud delivery. - Focusing on observability, developer ecosystems, and reliable engineering practices. - Bringing senior technical leadership across AI-enhanced infrastructure and product delivery.	
Technical Lead <i>KAYA</i>	Oct 2025 – May 2026
- Designed dynamic AI workflow engines with LangGraph and cloud-native delivery practices. - Led distributed application work across multiple Kubernetes clusters. - Shaped Node.js, TypeScript, Laravel, PostgreSQL, and platform engineering standards.	
Technical Lead <i>Brompton Bicycle</i>	Dec 2024 – Oct 2025
- Built Express microservices and full-stack platform capabilities for systems serving more than 100,000 daily users. - Modernized legacy PHP services toward TypeScript and Node.js, improving performance by 40%. - Introduced standards that reduced technical debt by 30% across delivery streams.	
Full Stack Engineer <i>NetWatch Global</i>	Jul 2023 – Dec 2024
- Built maintainable backend services and frontend workflows for business-critical platforms. - Worked across PostgreSQL, DynamoDB, API design, and production delivery.	
Senior Software Engineer <i>MacroActive</i>	Jun 2021 – Nov 2022
- Delivered full-stack product work across Laravel, JavaScript, and relational databases. - Collaborated with product and engineering teams to improve reliability and maintainability.	
Software Engineer <i>Elegant Media</i>	Apr 2019 – Jul 2020
Developed web and mobile platform features across client projects, APIs, and production support.	
Software Developer <i>Seven's Idea</i>	Jan 2018 – Mar 2019
Built application features and integrations across early-stage product and client delivery work.	
Software Developer <i>Alta Vision Solar</i>	Jun 2015 – Jan 2018
Started in software delivery with practical engineering work across business systems and web applications.	

Selected Open-Source Work

Fetch PHP	450 stars PHP
Modern PHP HTTP client inspired by JavaScript's fetch API. Async/await, streaming, SSE, middleware, RFC 7234 caching, and full PSR-7/18 compliance.	
Filterable	196 stars PHP
Enhance Laravel queries with adaptable, customisable filters and intelligent caching to improve both performance and functionality.	
phpvm	162 stars Shell
Simple PHP version manager for MacOS and Linux.	
Comet	158 stars TypeScript
A cross-platform desktop app powered by FFmpeg for easy, beautiful media conversion.	
Matrix	60 stars PHP
Bringing JavaScript-style async to PHP! Manage asynchronous tasks with ease using a modern, fiber-powered API for seamless concurrency and error handling.	

Product Work

Honeymelon	Founder and builder
A premium Apple Silicon macOS app for fast, reliable media conversion, built as a focused commercial product.	
• Product-led work covering UX, packaging, performance, and release quality. • Connects engineering craft with market-facing product judgment.	

Education

BSc Computer Systems Engineering	Sep 2022 – Jun 2023
<i>University of Sunderland</i>	
Higher National Diploma in Software Engineering	Aug 2020 – Mar 2022
<i>ICBT</i>	
Graduate Diploma in Telecommunications Engineering	Feb 2015 – Mar 2019
<i>IESL College of Engineering</i>	

Certifications

AWS Certified Solutions Architect – Associate — Amazon Web Services AWS Certified Cloud Practitioner — Amazon Web Services	
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Languages

English (Native or bilingual proficiency) Tamil (Native or bilingual proficiency) Sinhala (Limited working proficiency)	
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