

# NETHSARA ELVITIGALA

Senior Software Engineer

Colombo, Sri Lanka

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[github.com/Nethrenial](https://github.com/Nethrenial)

## PROFESSIONAL SUMMARY

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Results-oriented Software Engineer and former Co-Founder with extensive experience architecting scalable, high-performance distributed systems. Proficient in full-stack development with a focus on microservices, event-driven architectures, and cloud-native solutions. Demonstrated leadership in scaling engineering teams, driving technical strategy, and mentoring developers. Adept at translating complex business requirements into robust technical solutions using TypeScript, Java, and Modern Web Frameworks.

## TECHNICAL SKILLS

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

**Frameworks & Libraries:** NestJS, Node.js, Spring Boot, React, Next.js, Vue.js, Angular, Laravel, FastAPI, RxJS

**Databases & Storage:** PostgreSQL, MongoDB, MySQL, Redis, Firebase Firestore

**Cloud & Infrastructure:** AWS (EC2, S3, RDS), Google Cloud Platform (GCP), Docker, Kubernetes, CI/CD

**Architecture & Concepts:** Microservices, Event-Driven Architecture, REST, GraphQL, Temporal.io, System Design

## PROFESSIONAL EXPERIENCE

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### Senior Software Engineer

HeyMilo AI

February 2026 – Present  
(Remote) New York, United States

- Developed a flexible **Automation system** from scratch, enabling user configurable side effects for various events.
- Tech Stack:** Python, Typescript, React, NextJS, FastAPI, MongoDB, Temporal.io, Docker, Kubernetes.

### Software Engineer

Haulmatic Technologies

July 2024 – February 2026  
(Remote) Singapore

- Architected a scalable **Multi-Tenant Authentication and Authorization System** from scratch, enforcing strict security protocols and role-based access control (RBAC) across the logistics platform.
- Engineered the core Organization Module and Vessel/Flight Schedule Management system, serving as the foundational backbone for logistics operations.
- Implemented an **Event-Driven Architecture** using **Temporal.io** to orchestrate complex, long-running workflows, ensuring high fault tolerance and reliability for critical business transactions.
- Designed a low-code configuration mechanism for system events, allowing non-technical stakeholders to define side effects and reducing development overhead.
- Tech Stack:** TypeScript, Java, Angular, NestJS, GraphQL, Spring Boot RxJS, MongoDB, Temporal.io, Docker, Kubernetes.

### Co-Founder & Lead Software Engineer

ZaVolt

January 2023 – July 2024  
Colombo, Sri Lanka

- Scaled the engineering team from a 2-person founding team to 10 developers, establishing engineering culture, code review standards, and CI/CD pipelines.
- Led the end-to-end technical delivery for a diverse client portfolio (E-commerce, CMS, AI), acting as the primary Solution Architect and Technical Lead.
- Mentored junior engineers and defined the technical roadmap, ensuring high code quality and successful product launches across React, Node.js, and Spring Boot ecosystems.
- Managed requirements gathering and translated business goals into technical specifications, bridging the gap between client needs and engineering execution.
- Tech Stack:** Next.js, Nuxt.js, NestJS, Spring Boot, Python, MedusaJS, Flutter.

### Software Engineer Intern

Sysco LABS Technologies

November 2023 – June 2024  
Colombo, Sri Lanka

- Developed and presented a Generative AI tool utilizing **LLMs (LangChain/Gemini)** for intelligent test case generation, streamlining the QA process for Global Technical Leadership.
- Modernized legacy data workflows by refactoring Python analysis scripts into a containerized **REST API (FastAPI)**, deployed on AWS EC2 via Docker.

- Enhanced the resilience of the core Warehouse Management System (WMS) by implementing centralized error handling strategies.
- **Tech Stack:** Java, Spring Boot, Python, FastAPI, LangChain, AWS, Docker, PostgreSQL.

**Web Developer**

*PramixIT*

May 2022 – December 2022

*Ragama, Sri Lanka*

- Led the full migration of a matrimony platform from Vue.js to **Nuxt.js**, significantly optimizing Server-Side Rendering (SSR) performance and technical SEO.
- Engineered a real-time chat application using **WebSockets**, ensuring low-latency communication and secure user authentication.
- Contributed to the backend development of a coupon publishing platform using Laravel, focusing on API optimization and database schema design.
- **Tech Stack:** Vue.js, Nuxt.js, Laravel, TypeScript, WebSockets, SCSS.

**EDUCATION**

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**University of Colombo School of Computing**

*Bachelor of Science in Computer Science*

Colombo, Sri Lanka

2021 – 2024

**Infortec International**

*Diploma in Information Technology*

Nugegoda, Sri Lanka

2016 – 2017