

Thisara Samarasekara

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Melbourne, Australia (Relocating - Sept 2026) · Full working rights

EDUCATION

University of Moratuwa

Bachelor of Science in Mechanical Engineering Honours

Moratuwa, Sri Lanka

2017 – 2022

EXPERIENCE

Senior Software Engineer

Apr 2025 – Present

London Stock Exchange Group (LSEG)

- Serve as primary engineer across multiple production components owning end-to-end architecture, implementation, and delivery across multiple production releases.
- Reduced process startup sequence time by 72%, delivering significant daily cloud infrastructure cost savings and improving workflows for developers and QA teams.
- Engineered low-latency, multi-threaded, distributed systems in modern C++ powering core exchange matching and routing components.
- Led code-quality initiatives including systematic AddressSanitizer (ASan) integration, error-handling hardening, and build-warning remediation, achieving production-grade reliability.
- Collaborated in architecture and design reviews, improving long-term maintainability and scalability of exchange systems handling millions of daily transactions.

Software Engineer

Jun. 2024 – Mar 2025

London Stock Exchange Group (LSEG)

- Developed high-performance C++ features and bug fixes for core exchange components, improving component test pass rate to 100% in critical modules.
- Led end-to-end migration from Bamboo to Jenkins, modernising CI/CD infrastructure and reducing build pipeline maintenance overhead.

Graduate Accelerator — Software Engineer

Apr 2023 – Jun 2024

London Stock Exchange Group (LSEG)

- Strengthened deep fundamentals in algorithms, data structures, networking protocols, and OS internals as they apply to financial systems performance.
- Built a high-performance mini exchange prototype in C++ with dual gateways and a central matching engine, applying optimised data structures and multithreading for microsecond-level order processing

Shift Engineer

Oct 2022 – Mar 2023

Colombo Port Services (Pvt) Ltd

- Designed and deployed a mobile maintenance-management application and data-driven preventive maintenance programme for an inter-terminal prime mover fleet, digitising fleet reporting workflows.

PROJECTS

seniorassist.lk | *Next.js, React, TypeScript, PostgreSQL, Supabase*

May 2026 – Present

- Architected and delivered a full-stack SaaS platform targeting aged-care service providers in Sri Lanka
- Implemented secure server-side authentication and portal routing via Next.js middleware and Supabase session management
- Engineered backend access-rule logic to enforce subscription and booking eligibility, reducing invalid feature access
- Optimised React component performance with memoised state, computed values, and parallel data fetches, improving load times

TECHNICAL SKILLS

Languages: C++/C, Python, Java, SQL (Postgres), JavaScript, TypeScript, Shell Scripting

Frameworks: Next.js, React

Cloud & DevOps: AWS, Docker, Kubernetes, Jenkins (CI/CD), Git, Linux

Databases: MySQL, PostgreSQL, Supabase (Postgres + Auth)

Domains: Financial Exchange Systems, Low-Latency, Multi-threading, Distributed Systems, SaaS

Methodologies: Agile/Scrum, Jira, Confluence