

Kanishka Weerasekara

Senior Software Engineer

About

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Languages

- TypeScript
- Java
- JavaScript
- SQL
- C++

Cloud & DevOps

- AWS
- CDK
- Lambda
- DynamoDB
- S3
- CloudWatch
- CI/CD
- Serverless

Data & Streaming

- Apache Flink
- Event-driven Architecture
- Real-time Analytics
- Streaming Pipelines

Architecture & Design

- Microservices
- Distributed Systems
- Clean Architecture
- Domain-Driven Design

Tools & Platforms

- Git
- Docker
- Kubernetes (basic)
- Jenkins
- Monitoring/Observability

Summary

Experienced Senior Software Engineer and Technical Lead specializing in distributed systems, real-time analytics, cloud-native architectures, and platform engineering. Proven track record of delivering high-performance, scalable solutions across real estate analytics, financial exchanges, government systems, and enterprise platforms.

Experience

Domain Group

Senior Software Engineer

03/2022 - Present

Senior engineer working on real-time analytics and shared platforms for real estate agents.

- Built real-time analytics using Apache Flink for agent performance insights.
- Developed serverless platforms on AWS using Lambda, DynamoDB, and CDK.
- Contributed to shared onboarding and identity systems across multiple products.
- Collaborated with product, data, and platform teams on production systems.

Compono Pty Ltd

Senior Full Stack Developer

04/2021 - 03/2022

Senior developer on a cloud-based learning platform for government and enterprise clients.

- Migrated the platform from Azure to AWS.
- Improved stability through refactoring and production diagnostics.
- Delivered backend and frontend features in a regulated environment.

ICT Agency

Technical Lead / Senior Full Stack Engineer

03/2020 - 01/2021

Technical lead for national-scale digital identity and verification systems.

- Architected secure identity verification services for financial institutions.
- Led a small engineering team and worked with government stakeholders.
- Established testing and delivery best practices.

QuEST Global

Senior Software Engineer

07/2018 - 12/2019

Senior engineer on large-scale transport and control systems.

- Lead engineer for station control systems in Singapore's rail network.
- Designed scalable backend services and APIs.
- Contributed to cloud deployment evaluations.

London Stock Exchange Group

Senior Software Engineer / Associate Tech Lead

09/2011 - 07/2018

Engineer and tech lead on mission-critical, low-latency trading and clearing platforms.

- Led development of core components for clearing and trading systems.
- Worked on sub-millisecond latency systems with high reliability requirements.
- Promoted to Associate Tech Lead within four years.

Notable Projects

Skylight – Real-Time Analytics Platform

A real-time analytics platform providing live insights into agent listing performance and engagement.

Lead Engineer

Apache Flink Real-Time Analytics Streaming

- Designed streaming pipelines using Apache Flink to compute real-time metrics across millions of agents.
- Collaborated with product and UX teams to surface actionable insights for agents via dashboards.
- Optimized throughput and latency to meet demanding SLAs for live dashboards.

Aligned Identity Platform

A shared identity service used across Domain internal products to unify agent identity handling.

Architect & Developer

Serverless AWS CDK DynamoDB

- Implemented using AWS Lambda, DynamoDB, CDK with event-driven design.
- Reduced onboarding friction and duplicated identity logic across products.
- Applied best practices for security, observability, and scalability.

Self Serve – Onboarding Platform

Platform to streamline onboarding across multiple Domain products.

Developer

Platform Engineering Microservices

- Unified onboarding process for products like RealtimeAgent, Homepass, and Agent Admin.
- Improved data consistency and reduced support overhead.
- Designed extensible workflows for future product expansion.

Clearing House Core System

Core position and risk management system for a major financial clearing house.

Tech Lead

Low Latency Financial Systems

- Led the team delivering high-performance, low-latency infrastructure.
- Maintained rigorous testing culture with >95% unit test coverage.
- Improved performance to meet real-time clearing requirements.

Millennium Exchange Development

High-performance trading engine used across global exchanges.

Developer

Trading Systems Distributed Systems

- Developed core gateway and pricing components.
- Worked on sub-100 microsecond performance optimizations.
- Collaborated with cross-region teams for production rollout.

Education

University of Colombo School of Computing

Bachelor of Science Information and Communication Technology