

Sasitha Madushanka

Senior Full-Stack Developer | Angular · Java · AWS

📍 Tawa, Wellington, New Zealand

🌐 sasitha.net

🌐 www.linkedin.com/in/sasitha

✉ sasithamadushanka@gmail.com

☎ +64204399455

Senior Full-Stack Developer with 9+ years delivering enterprise applications across Angular, Java, and AWS. Specialises in cloud infrastructure architecture, event-driven systems, and leading delivery teams from requirements through to production. Based in Wellington, NZ

📁 Work Experience

Senior Software Developer, Digital Transformation 🌐 May 2023 – Present

- **Architected and delivered** production-grade full-stack and cloud infrastructure solutions for enterprise clients across industries including financial services, data centre management, and transport — hosted on AWS
- **Designed complex AWS networking and infrastructure** including multi-AZ VPCs, ECS clusters, Aurora databases, and serverless pipelines, provisioned entirely via AWS CDK as Infrastructure as Code
- **Built event-driven backend architectures** using Lambda, API Gateway, SQS, and ECS tasks — enabling scalable, decoupled processing pipelines for high-volume workloads
- **Led client discovery sessions** to translate complex business requirements into technical architecture decisions, owning the solution design end-to-end
- **Mentored junior developers** through code reviews, established coding standards, and hands-on architectural guidance across delivery teams

React, Angular, TypeScript, AWS (Lambda, ECS, CDK, Aurora, VPC, DynamoDB, S3, API Gateway, EventBridge), Spring Boot

Technical Lead, Tunclab Solutions 🌐 Aug 2018 – Mar 2023 | Colombo, Sri Lanka

- **Led cross-functional development teams** of 3-5 engineers to deliver scalable web applications for international clients.
- **Improved team productivity** by implementing Agile/Scrum methodologies and establishing sprint planning processes.
- **Designed cloud-first architectures** that reduced operational overhead and improved system reliability.
- **Established DevOps practices** including Infrastructure as Code (AWS CDK) and automated CI/CD pipelines, reducing deployment time from hours to minutes.
- **Managed client relationships** across multiple time zones, ensuring clear communication and expectation alignment.

React, React Native, Angular, Node.js, AWS (CDK, CodePipeline, Lambda), HTML5, SCSS

Associate Tech Lead, Zone 24x7 Apr 2018 – Aug 2018 | Colombo, Sri Lanka

- **Designed warehouse automation solution** that increased package processing efficiency by 60% for logistics client.

Java, Spring Boot, Hibernate, Angular, MySQL, Jenkins

Senior Software Engineer, Zone 24x7 🌐 Apr 2016 – Mar 2018 | Colombo, Sri Lanka

- **Built enterprise document verification and KYC system** processing 10K+ documents daily using AI/ML image processing.

Java, Spring Boot, Angular, MySQL, Jenkins

Software Engineer, Zone 24x7 🌐 Nov 2014 – Mar 2016 | Colombo, Sri Lanka

- **Developed secure banking platform** for cheque deposit processing, handling \$2M+ in daily transactions.

Java, Spring Framework, Angular, Wildfly, Apache Tomcat

Projects

Data Center Infrastructure Management (DCIM), *Digital Transformation*

2025 – Present

Challenge: Enterprise client needed a secure, highly available cloud environment to host Schneider Electric's EcoStruxure ITA platform with zero direct internet exposure .

Solution: Production-grade multi-AZ AWS architecture with zero-trust networking, isolated database tiers, and full Infrastructure as Code.

Impact: Delivered a resilient, secure hosting platform with automated deployments and no bastion host dependency.

- Designed a multi-AZ VPC with public, private, and isolated subnet tiers, deploying ITA in an active-passive HA configuration across two AZs behind an Application Load Balancer.
- Secured all inter-service communication via VPC Endpoints and integrated Netskope for zero-trust user access — eliminating all direct internet exposure.
- Provisioned Aurora instances in isolated subnets, ECS-based ETL pipelines, and HVR Agent for real-time data replication to Snowflake.
- Managed secrets via AWS Secrets Manager, container images via ECR, and instance access via Session Manager — no bastion hosts required.

AWS (CDK, VPC, ECS, Aurora, ALB, ECR, Secrets Manager, Session Manager, SQS, EventBridge, CloudWatch, S3), Schneider EcoStruxure ITA, HVR, Netskope

Student Loan Application Platform (Connect), *Digital Transformation*

2024 – Present

Challenge: Manual, paper-based student loan application process causing delays and poor visibility for processing teams.

Solution: Cloud-native digital platform with event-driven document processing pipeline and React self-service portal.

Impact: Eliminated paper submissions, reduced application processing time, and scaled to handle high application volumes without degradation.

- Built a React frontend for students to complete applications and upload supporting documents as PDFs, with all files stored securely in S3.
- Designed an event-driven backend where document uploads trigger ECS tasks for asynchronous file processing and submission to downstream systems.
- Exposed application data to the frontend via a serverless REST API using API Gateway and Lambda, backed by DynamoDB.
- Architected for scale — decoupled processing pipeline handles high application volumes without impacting API responsiveness.

React, AWS (ECS, Lambda, API Gateway, DynamoDB, S3, CDK), TypeScript

Trailer Hire Automation , *Digital Transformation*

Challenge: Manual operations across multiple locations causing inefficiencies and poor customer experience.

Solution: End-to-end digital transformation with React Native KIOSK system and web management platform.

Impact: Streamlined operations company-wide, enabled self-service bookings, improved customer satisfaction and business retention.

- Led technical architecture and React Native KIOSK application development.
- Managed full-stack web solution and trained development team of 3 members.
- Implemented scalable AWS infrastructure using CDK for multi-location deployment.

React, React Native, Spring Boot, AWS (Lambda, DynamoDB), PostgreSQL

AI-Driven Real Estate Advertisement Writer, *Freelance*

Challenge: Real estate agents spending hours creating compelling property advertisements.

Solution: AI-powered online editor generating professional advertisements from property data.

Impact: Reduced ad creation time from 2 hours to 5 minutes, improved engagement rates by 60%.

- Architected full-stack solution integrating proprietary AI/ML algorithms.
- Built responsive web editor with real-time preview and customization features.
- Implemented secure payment processing using Stripe and automated billing system.

JavaScript, Node.js, AWS (CDK, Lambda), Stripe API

Utility Billing & Reporting Platform , *Tunclab Solutions*

Challenge: Utility provider needed cost-effective billing solution to replace expensive legacy system.

Solution: Cloud-native platform with automated billing, reporting, and customer portal.

Impact: Reduced operational costs through automated billing processes.

- Led development team coordination.
- Designed cost-optimized AWS infrastructure using serverless technologies.

React, Node.js, AWS (Lambda, DynamoDB, S3), CDK

Inventory Management & Mobile Ordering System, Tunclab Solutions

Challenge: Wholesale supplier needed integrated system for inventory tracking and customer ordering.

Solution: Web-based inventory system with companion mobile app for customer orders.

Impact: Increased order accuracy and significantly reduced processing time.

- Designed complete system architecture and led 4-person development team.
- Developed Flutter mobile app for seamless customer ordering experience.

Angular, Node.js, AWS (Lambda, DynamoDB, S3), Flutter

Self Checkout KIOSK Application for Retail Shops, Zone 24x7

Challenge: Leading US retail chain needed a modern self-service checkout experience to reduce staff dependency and improve customer throughput.

Solution: Android-powered self-checkout KIOSK application enabling customers to browse product information and complete purchases independently.

Impact: Delivered a scalable self-service solution rolled out across retail locations, reducing queue times and freeing up staff for higher-value tasks.

- Designed and developed a native Android KIOSK application providing product lookup and end-to-end self-checkout functionality.
- Built for reliability and ease of use in a high-traffic retail environment, optimised for touch-based KIOSK hardware.

Java, Android

Skills

React | **Angular** | **AWS** — VPC, EC2, ECS, RDS, Lambda, S3, DynamoDB, CDK | **REST** | **JavaScript** | **TypeScript** | **Agile** | **Software Development** — Design Patterns, OOP, SOLID | **React Native** | **Unit Testing** — TDD, BDD, Cypress | **GIT** | **Java** | **Spring Boot**

Education

BSc in Computer Engineering,
University of Peradeniya 
May 2010 – Jun 2014 | Sri Lanka