

NADEESHA DILRUWAN

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[LinkedIn](#) | [GitHub](#)

 **Actively seeking opportunities in Canada. Eligible for work authorization. Committed to relocating with family.**

PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with 10+ years building scalable, high-performance systems in FinTech and e-commerce. Expert in TypeScript, Node.js, React, and AWS infrastructure with proven expertise in AI/ML integration, serverless architectures, and legacy system modernization. Seeking challenging roles in Canada to drive innovation in cloud-native and AI-powered platforms.

CORE COMPETENCIES

Systems Architecture & Design | Event-Driven Architectures | Microservices | Full-Stack Development | Infrastructure-as-Code (AWS CDK, Terraform) | Serverless Patterns | Legacy System Modernization | AI/ML Integration (Claude, LLMs) | Domain-Driven Design | Test-Driven Development | Mentorship & Technical Leadership

PROFESSIONAL EXPERIENCE

Senior Software Engineer • Otrium B.V., Amsterdam, Netherlands • July 2023 – Present

Full-Stack Platform Architecture & AI-Driven Solutions

Led design and implementation of next-generation invoicing system and core platform services. Architected systems for 10+ million monthly transactions with real-time processing. Transitioned from pure backend engineer to full-stack owner with responsibility for React frontends and TypeScript/Node.js backends. Spearheaded integration of AI/ML to solve product domain challenges.

Key Achievements:

AI/ML for E-Commerce: Integrated Claude AI and custom ML models to solve multi-brand, multi-geography cloth sizing problem. Different brands use different size schemas (S/M/L vs numeric) and sizes vary by region. Built end-to-end pipeline to normalize schemas, generate synthetic training data using AI models, deploy real-time sizing recommendations via Lambda functions, and monitor performance. Reduced customer return rates from sizing issues by 23%. Handled production workloads processing 100K+ sizing requests daily.

Infrastructure-as-Code & DevOps: Designed and deployed serverless infrastructure using AWS CDK and Terraform managing Lambda functions, EventBridge routing rules,

DynamoDB tables, and RDS instances. Implemented automated CI/CD pipelines (GitHub Actions, CodePipeline) reducing deployment time by 60% and enabling 20+ deployments per week. Established monitoring with CloudWatch and alerts.

Full-Stack Ownership: Evolved from backend-only role to owning entire feature lifecycle. Built React components for invoicing dashboard with TypeScript, optimized GraphQL APIs for performance, implemented caching strategies, and mentored 3+ junior engineers across frontend and backend. Established coding standards (ESLint, Prettier), TDD practices, and architectural review processes.

Tech Stack: *TypeScript, Node.js, Nest.js, React, Python, GraphQL, PostgreSQL, AWS CDK, Terraform, Lambda, EventBridge, SQS, RDS, DynamoDB, Claude AI API, Docker*

Technical Lead • Gapstars, Colombo, Sri Lanka • February 2022 – June 2023

Architectural Transformation: Monolith to Microservices

Led architectural transformation from monolithic legacy system to modern event-driven microservices. Mentored team of 5 engineers through complex migration. Established testing standards (increased coverage from 20% to 78%) and Domain-Driven Design patterns.

Key Achievements:

Monolith-to-Microservices Migration: Architected multi-phase migration of 200k+ LOC PHP monolith to 8 independent Node.js/TypeScript microservices over 18 months. Implemented Apache Kafka for event streaming, designed API contracts with OpenAPI, managed database migration (sharding strategy), and achieved zero downtime during transition using event sourcing patterns.

Mentoring & Standards: Established TDD culture and DDD patterns across the team. Conducted weekly architecture reviews and code walkthroughs. Mentored junior engineers on system design, resulting in 2 promotions within 12 months. Documented architectural decisions and best practices.

Tech Stack: *PHP, Symfony, Node.js, TypeScript, MySQL, Docker, Redis, Apache Kafka, AWS, New Relic*

Associate Technical Lead • Swivel Tech, Colombo, Sri Lanka • March 2020 – February 2022

Developed and maintained full-stack features across React frontends and serverless Node.js backends. Managed production deployments, incident response, and infrastructure scaling. Contributed to refactoring legacy PHP codebase and establishing CI/CD practices.

Tech Stack: React, JavaScript, PHP, MySQL, Docker, Redis, AWS Lambda, AWS Step Functions, Jest, Jenkins

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Node.js, React, Python, PHP
Backend Frameworks	Nest.js, Express, Symfony, Laravel, Zend, Doctrine, Prisma, TypeORM
Frontend	React, TypeScript, GraphQL, REST APIs, HTML5, CSS3, Material-UI, Responsive Design
Infrastructure-as-Code	AWS CDK, Terraform, CloudFormation, Docker, Kubernetes, Serverless Framework
AWS Services	Lambda, EventBridge, SQS, Kinesis, RDS, DynamoDB, S3, EC2, CloudWatch, Secrets Manager, API Gateway
Data & Streaming	Apache Kafka, AWS Kinesis, Redis, RabbitMQ, PostgreSQL, MySQL, MongoDB, Event Sourcing
Testing & Quality	Jest, Mocha, Enzyme, PHPUnit, SonarQube, Cucumber, Behat, TDD, Integration Testing
DevOps & Monitoring	Docker, Kubernetes, Jenkins, GitHub Actions, New Relic, Sentry, CloudWatch, Log aggregation
AI/ML & LLM Integration	Claude/LLM API Integration, Prompt Engineering, Machine Learning Pipelines, Synthetic Data Generation, ML Model Evaluation, RAG Systems, Event-Driven Architecture, Microservices Design Patterns, Domain-Driven Design
Methodologies	Agile, Scrum, Kanban, TDD, System Design, Mentoring, Technical Leadership, Code Review

EDUCATION

BEng (Hons) Software Engineering

University of Westminster, London (Upper Second Class, 2018)

LANGUAGES

- English (Fluent)
- Sinhala (Native)

Work Authorization: Open to employer sponsorship. Currently on Netherlands residence permit; eligible for Canadian work permit pathways (International Mobility Program, Global Talent Stream). Willing to discuss visa sponsorship as part of employment negotiations.