

# NISHAN CHATHURANGA

## SENIOR FULL STACK DEVELOPER | ASSOCIATE TECHNICAL LEAD

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## PROFESSIONAL SUMMARY

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**Associate Technical Lead / Senior Software Engineer** with experience designing and delivering scalable enterprise applications across logistics, finance, and e-commerce domains. Skilled in software architecture, cloud-based systems, and full-stack development using .NET, Angular, and Azure. Proven track record of translating business requirements into secure, high-performance solutions while leading teams, managing releases, and improving system reliability. Strong background in AI/ML research and modern engineering practices, with a focus on performance optimization, system scalability, and product quality.

## WORK EXPERIENCE (6 YEARS)

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### ASSOCIATE TECHNICAL LEAD

KEYENERGY — COLOMBO, SRI LANKA

October 2023 – Present

- TCMS GLOBAL, USA
  - Contributed to development and enhancement of enterprise logistics modules including Order Management, Shipments, Carrier integrations, and third-party system integrations (Samsara Inc., Syntra).
  - Played a key role in the full lifecycle development of multiple platforms including *Journey Navigator* (flagship system), *Container Docs*, *DocuManager*, and *Shipper Docs*, ensuring seamless interoperability between systems.
  - Collaborated within an 8-member engineering team to deliver scalable, high-reliability features and performance optimizations across distributed systems.
- BOURQUE LOGISTICS, USA
  - Led end-to-end development of the YardMaster Truck Portal within a 3-member engineering team, delivering the complete product in under six months through close client collaboration.
  - Designed and implemented logistics features such as Bill of Lading management and scheduling workflows.
  - Identified and resolved front-end performance bottlenecks, improving application responsiveness and user experience.
  - Oversaw release cycles, testing coordination, and post-deployment support to ensure stable delivery and operational continuity.
- WRAPME (PVT) LTD, SRI LANKA
  - Led development of an e-commerce platform while serving as Scrum Master for a 5-member team, managing sprints, releases, and delivery milestones.
  - Coordinated cross-functional teams to ensure timely product delivery aligned with business requirements.
  - Implemented features aligned with product requirements while ensuring maintainable and scalable system design.
  - Introduced agile and automation practices that improved product stability and deployment reliability.

### SENIOR SOFTWARE ENGINEER | SOFTWARE ENGINEER

99X (PVT) LTD — COLOMBO, SRI LANKA

April 2020 – September 2023

- ADRA TRINTECH (SCANDINAVIA / USA)

- Contributed to the development of an enterprise automated task management platform, supporting global accounting and finance workflows.
- Served as Scrum Master, facilitating sprint planning, stand-ups, retrospectives, and delivery coordination to ensure predictable and timely releases.
- Acted as Quality Architect, defining quality standards, reviewing implementations, and ensuring adherence to testing and coding best practices.
- Collaborated with cross-functional and distributed teams to deliver reliable, scalable features aligned with client requirements and regulatory expectations.
- Maintained product stability and performance through proactive defect analysis, root-cause investigation, and continuous improvement practices.
- Led UI test automation framework improvements, significantly reducing full regression execution time and improving release confidence.
- Evaluated team performance and introduced process improvements to increase delivery efficiency and product quality.

Visit <https://nishanc.com/portfolio> for more information.

## EDUCATION

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### Bachelor Of Science Honors in Information Technology

UNIVERSITY OF MORATUWA, SRI LANKA

Graduated: 2020

### Diploma In Information Technology by Pearson

ESOFT METRO CAMPUS, SRI LANKA

Graduated: 2014

## SKILLS

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**Core Competencies: Software Architecture • Distributed Systems • Cloud Engineering • AI-Integrated Applications • Performance Optimization • Enterprise System Development**

### Programming Languages & Frameworks

C#, .NET, ASP.NET Core, Web API, MVC, Python, TypeScript, JavaScript, Angular

### Cloud, DevOps & Infrastructure

Microsoft Azure, Docker, Kubernetes, CI/CD Pipelines, ARM Templates, Git

### Architecture & System Design

Software Architecture, Distributed Systems, Microservices, RESTful APIs, Scalable Systems, Design Patterns, Performance Optimization, Caching Strategies

### Databases & Storage

MS SQL Server, PostgreSQL, MySQL, Redis, In-Memory Caching

### Messaging & Integration

Azure Service Bus, Third-Party API Integration, Event-Driven Architecture

### Authentication & Security

JWT Authentication, OAuth 2.0, Secure API Design, Identity Integration

### Monitoring & Observability

Azure Application Insights, Grafana, Sentry, Datadog, Logging & Telemetry Analysis

### Testing & Quality Engineering

xUnit, MSTest, Test Automation

### ORM & Data Access

Entity Framework Core, Dapper

## AI & Emerging Technologies

Generative AI, Machine Learning Concepts, NLP Fundamentals, AI Integration

## Professional Practices

Agile/Scrum, Technical Leadership, Code Reviews, Client Communication, Release Planning

## PUBLICATIONS — AI / ML RESEARCH

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### **A Framework to Detect Twitter Platform Manipulation and Computational Propaganda (IEEE)**

ICTER 2020 - INTERNATIONAL CONFERENCE ON ADVANCES IN ICT FOR EMERGING REGIONS, UNIVERSITY OF COLOMBO

Designed a modular AI system integrating NLP, sentiment analysis, and predictive modeling to assess content credibility and detect coordinated misinformation campaigns on social platforms. The framework leverages behavioral signals and network analytics to identify manipulation patterns at scale. <https://ieeexplore.ieee.org/document/9325499>

### **Detecting Automatically Generated Tweets Using Lexical Analysis and Profile Credibility (IEEE)**

ICITR 2019 - 4TH INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY RESEARCH, UNIVERSITY OF MORATUWA

Developed an AI-based detection framework combining machine learning and natural language processing to identify automated social media accounts and misinformation. The approach analyzes tweet content and user credibility signals to classify posts and detect platform manipulation threats. <https://ieeexplore.ieee.org/document/9407800>

### **Invoke Artificial Intelligence and Machine Learning for Strategic-Level Games and Interactive Simulations (Springer)**

SLAAI 2018 - INTERNATIONAL CONFERENCE OF THE SRI LANKA ASSOCIATION FOR ARTIFICIAL INTELLIGENCE

Proposed a novel AI-driven procedural content generation methodology using Ternary Neural Networks to dynamically generate adaptive scenarios for strategic simulations. The study demonstrates how machine learning models can replace rigid rule-based systems to create realistic environments and intelligent decision-making mechanisms. [https://link.springer.com/chapter/10.1007/978-981-13-9129-3\\_10](https://link.springer.com/chapter/10.1007/978-981-13-9129-3_10)

## LEADERSHIP, RECOGNITION & COMMUNITY ENGAGEMENT

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### **Guest Speaker — University Tech Sessions**

Delivered technical talks simplifying complex engineering concepts for students and aspiring developers.

### **Student Mentor — STEMUP Educational Foundation**

Mentored students and conducted initiatives to promote STEM careers, innovation, and problem-solving skills.

### **Awards & Competitions (Visit <https://nishanc.com/more.html#achievements>)**

- Champion Team — IESL YMS Hackathon (2017)
- 1st Runner-Up — Mora Ventures 3.0 (2018)
- Finalist — 4IR Hackathon (SLASSCOM & Virtusa, 2018)
- Batch Top & Best Project — ESOFTE Metro Campus (2014)

## REFEREES

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