

HARISSHIENE HARIYENDIRAN

SOFTWARE ENGINEER

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SUMMARY

Full-stack software engineer and system architect based in Sri Lanka, specializing in building scalable, real-world solutions across web, data, and AI-driven platforms. Experienced in transforming complex, unstructured processes into efficient, maintainable systems with strong focus on architecture, usability, and long-term scalability. Skilled across backend, frontend, infrastructure, and workflow automation, with a product-oriented mindset and a track record of delivering impactful solutions. Passionate about startup innovation, public-sector digital transformation, and developing technology that solves meaningful problems at scale. Recognized with 4 national awards and 2 publications, with experience building globally relevant products from a Sri Lankan base.

EXPERIENCE

QuantumPlus(Pvt)Ltd - Full-Stack Developer Aug 2025 - Present

- Developing end-to-end AI-powered applications, handling both frontend and backend systems. Involved in system architecture, feature development, and integrating AI workflows into production-ready products.

QuantumPlus(Pvt)Ltd - Associate Software Engineer Feb 2025 - Aug 2025

- Contributing to digital transformation initiatives and AI-based solutions for education systems. Built and enhanced platforms focused on process automation, data management, and improving operational efficiency.

Ministry of Education, Eastern Province — Full-Stack Developer Intern Aug 2025 - Present

- Contributing to digital transformation initiatives and AI & ML-based solutions for education systems. Built and enhanced platforms focused on process automation, data management, and improving operational efficiency.

DuskQ(Pvt)Ltd - Software Engineer Intern Aug 2025 - Mar 2026

- Worked on fintech and AI-driven solutions, contributing to backend systems, API development, and workflow automation. Focused on building reliable, scalable components for financial processes and intelligent features.

QuantumPlus(Pvt)Ltd - Software Engineer Intern Dec 2024 - Feb 2025

- Worked on fintech and AI-driven solutions, contributing to backend systems, API development, and workflow automation. Focused on building reliable, scalable components for financial processes and intelligent features.

PROJECTS

ChemNexus AI

- AI-powered chemistry learning platform with a personalized assistant, designed to simplify complex concepts and enhance student understanding through interactive, adaptive learning.

EMS360

- AI-driven education management ecosystem covering academics, HR, infrastructure, finance, and analytics. Designed for large-scale institutional efficiency;

RollCall

- Community-driven platform for organizing tabletop gaming meetups and events, enabling social engagement and event coordination.

SCOApp (Smart Cloud Office Platform)

- Enterprise-grade digital office system enabling correspondence workflows, appointment handling, citizen services, and executive dashboards;

ResolveQ

- AI-powered governance complaint management system focused on transparency and efficiency. Award-winning solution with published research backing.

Appointment System

- Visitor pre-registration and token-based queue management platform to streamline public service delivery and reduce waiting times.

InforNexus AI

- AI-powered governance complaint management system focused on transparency and efficiency. Award-winning solution with published research backing.

E-Code (Establishment Code Agent)

- Intelligent workflow automation system for organizational policy and establishment code handling, improving compliance and operational efficiency.

Digital Education Platform

- Comprehensive platform for managing educational institutions, including advanced administration, academic tracking, and operational management features.

LexAI (Virtual Legal Intelligence Platform)

- AI-powered legal assistant platform supporting lawyers, legal aid clinics, and judiciary institutions with intelligent insights and legal workflows.

SNPOS (Student Nutrition & Performance Optimization System)

- Dual-portal system linking student nutrition data with academic performance to generate insights that improve both health and educational outcomes.

AgriTrace360

- End-to-end agricultural traceability platform integrating IoT monitoring, AI-based shelf-life prediction, and blockchain for secure, transparent supply chains.

ParikshaQ

- Web-based question bank and online examination system with anti-cheating mechanisms, analytics, and scalable assessment management.

AWARDS & RECOGNITION

National Ingenuity Award 2025 — Best Innovative Product

- ChemNexus AI , AI-Powered Chemistry Learning Platform (ChemNexus AI) – Developed an intelligent learning system for students featuring a personalized AI assistant, adaptive content delivery, and interactive study support. Designed to make chemistry engaging and accessible through modern, user-friendly experiences. Recognized with the National Ingenuity Award 2025 for innovation and impact in education.

Best Practice Innovation in Efficient and Accountable Governance

- ResolveQ , AI-driven complaint management system designed to enhance governance through intelligent case handling, prioritization, and resolution tracking, improving transparency and accountability in public service delivery.
- Awarded at BP-IPAG 2025 — **Best Practice Innovation in Asia-Pacific Governance**

Best Practice Innovation in Digital Transformation & Innovation

- EMS360 , AI-powered Education Management Ecosystem integrating academics, HR, infrastructure, finance, and analytics into a unified digital platform for institutional efficiency and data-driven decision-making.
- Recognized at BP-IPAG 2025 — **Best Practice Innovation in Asia-Pacific Governance**

Best Practice Innovation in Digital Transformation & Innovation

- SCOAPP, Smart Cloud Office platform enabling end-to-end digital governance, including correspondence workflows, appointment management, citizen-facing services, and executive dashboards.
- Recognized at BP-IPAG 2025 — **Best Practice Innovation in Asia-Pacific Governance**

Best Practice Innovation in People Power and Nurturing Human Capital Development

- ChemNexus AI , AI-powered chemistry learning platform delivering personalized tutoring, syllabus-aligned guidance, and intelligent question prediction to enhance student outcomes. Designed with adaptive learning features and real-time academic support.
- Recognized at BP-IPAG 2025 — **Best Practice Innovation in Asia-Pacific Governance**

WORK PUBLISHED

ChemNexus AI — AI-Powered Educational Platform

2025

- Personalized AI-driven learning platform with adaptive tutoring and predictive academic support. **BP-IPAG Symposium 2025, 2025 (Full Paper) | ISSN: 3051-5998**

EMS360 — AI-powered Education Management Ecosystem

2025

- Integrated platform for academics, HR, finance, and analytics enabling data-driven education governance. **BP-IPAG Symposium 2025, 2025 (Full Paper) | ISSN: 3051-5998**

SCOApp — Smart Cloud Office Platform for Public Administration

2025

- Cloud-based system streamlining workflows, citizen services, and executive decision-making. **BP-IPAG Symposium 2025, 2025 (Full Paper) | ISSN: 3051-5998**

ResolveQ — AI-Powered Complaint Management System for Governance

2025

- Intelligent complaint handling system improving transparency, prioritization, and resolution tracking.. **BP-IPAG Symposium 2025, 2025 (Full Paper) | ISSN: 3051-5998**

ChemnexQ — Smart Learning Platform

2026

- AI-enabled multidisciplinary learning system enhancing knowledge delivery and student engagement. **International Conference on Artificial Intelligence in Multidisciplinary Applications (AIMDA 2026), 2026 (Abstract & Full Paper)**

TECHNICAL SKILLS

Languages & Core Development:

PHP, JavaScript, TypeScript, Python, SQL , Golang , Rust

Frameworks & Libraries:

Laravel, Fiber, Gin , React, Node.js, Vue , Nextjs

Backend & API Development:

RESTful APIs, MVC Architecture, Authentication & Authorization, Microservices Concepts

Database & Data Management:

MySQL, Database Design, Query Optimization, Data Modeling

AI & Intelligent Systems:

AI Integration, Prompt Engineering, AI Assistants, Workflow Automation, Predictive Systems

System Architecture & Engineering:

Scalable System Design, Software Architecture, Workflow-Based Systems, Performance Optimization

DevOps & Tools:

Git, GitHub, CI/CD Concepts, Deployment, Environment Configuration

Domain Expertise:

FinTech, EdTech, Digitalization Innovations, ML/AI Applications, Business Process Automation

PROFESSIONAL SKILLS

- Problem Solving
- System Thinking
- Product-Oriented Development
- Analytical Thinking, Adaptability
- Team Collaboration
- Technical Leadership

EDUCATION

Higher National Diploma in IT

April 2024 - Jan 2026

Core Subjects : Machine Learning, Software Engineering, Web Development, Database Systems, Computer Security, Data Structures & Algorithms, System Analysis & Design, IT Project Management

SLAITE - ATI, Trincomalee | GPA: 4.0

Diploma in Quantum computing & programming

July 2025

Core Subjects : Machine Learning, Software Engineering, Web Development, Database Systems, Computer Security, Data Structures & Algorithms, System Analysis & Design, IT Project Management

QWorld & Wisar | Diploma No: QBronze169-417

NCT- Civil Engineering

Dec 2021 - Dec 2024

Core Courses: Structural Engineering, Surveying, Construction Materials, Fluid Mechanics, Geotechnical Engineering, AutoCAD & Drafting, Project Management

Advanced Level - Physical Science

April 2020

Combined Mathematics, Physics, and Chemistry

CERTIFICATIONS

- **QBronze Diploma in Quantum Computing & Programming**

QWorld & Womanium | Wiser 2025 Quantum Program | Diploma No. QBronze169-417

- **AI for Essential Digital Skills (Certificate of Completion)**

AI Singapore | AI Opportunity Fund: Asia-Pacific | AVPN, Google.org & ADB | May 31, 2026

- **GSDC Global Generative AI Advance Prompt Engineering Webinar 2025**

Global Skill Development Council | GSDC | June 30 – July 4, 2025

- **CHEMNEXQ: Smart Learning Platform (Paper Presentation)**

International Conference on Artificial Intelligence in Multidisciplinary Applications | MARC, University of Peradeniya & gapHQ | February 13, 2026

- **AI Capacity Building for Education, Workforce Development & Innovation Ecosystems**

AI International Conference | gapHQ, University of Peradeniya | December 17, 2025 | Certificate No. AIMDA26_W02_C098

- **Front-End Web Development**

Centre for Open & Distance Learning (CODL) | University of Moratuwa, Sri Lanka | Verification Code: 31EsunF7Da

- **Python for Beginners**

Centre for Open & Distance Learning (CODL) | University of Moratuwa, Sri Lanka | July 24, 2022 | Verification Code: 1Dg7c0MvLE