



PROFILE SUMMARY

Seasoned Senior Software Engineer who architects and ships cloud-native SaaS platforms for clients in Sri Lanka and abroad. I blend React / Next.js front-ends with high-throughput Node.js (and emerging ASP.NET) micro-services, applying AI features where they move the needle. My track record spans healthcare, telecom, and enterprise software, repeatedly boosting uptime, performance, and developer velocity through DevOps, container-first workflows, and agile leadership. Key wins include production systems for SAGT, Dialog, and Amerck Care that continue to scale and iterate rapidly in live environments.

AREAS OF EXPERTISE

• Full-Stack Development	• Microservices Architecture
• Cloud-Native Architecture (AWS)	• Software Architecture & Design
• SaaS Product Engineering	• Cross Functional Team Leadership

CORE COMPETENCIES

DevOps & CI/CD | Real-Time Systems | AI/ML Integration | Database Design & Optimization | Agile Project Management | Backend & Frontend Engineering | System Scalability & Performance | ERP Integration | Cross-Functional Team Leadership | API Development & Integration | Stakeholder & Client Engagement | Security & Compliance

KEY PROJECTS & CAREER HIGHLIGHTS

AI-Powered EMR Platform – Amerck Care (Sri Lanka) – [amerck.care](#)

- Launched MVP in 3 weeks; now processes 700+ e-prescriptions/week with 99.9 % API uptime.
- Embedded Groq Llama 3.3 + OpenAI GPT-4o micro-services for drug-interaction checks, cutting charting time by 35 %.

Carbon Credit Marketplace Development (Canada) – [carbonhub.ai](#)

- Rolled out AI chatbot (Groq Llama 3.3) that slashed onboarding tickets 40 % and lifted conversion +18 %.
- Designed cloud-native trading core on AWS (ECS, EC2, RDS) with Cloudflare CDN, sustaining 2 k req/s at p95 < 300 ms.

Mining Operations Suite Deployment (Canada/Mexico) - [xploraweb.com](#)

- Built real-time collaboration layer with Socket.IO + Redis pub/sub, enabling shift-handover updates in < 1 s.
- Delivered responsive dashboards (Next.js ISR, Tailwind CSS) with Firebase Auth, boosting field-engineer task accuracy +22 %.

Telecom Analytics Automation (Germany)

- Rescued a stalled \$30 k project: automated KPI pipeline for A2P messaging, delivering 100 % of contractual metrics.

Links

GitHub: [github.com/nisaljin](#)

Academic Experience

Bachelor of Science (Hons) in Computer Systems Engineering | 2022

NSBM Green University, Homagama, Sri Lanka

Software Engineering Fundamentals - Certificate Course | 2018

Winhe Software Engineering Academy, Sri Lanka

GCE Ordinary Level (O/L) and Advanced Level (A/L) Examinations | 2017

Royal College, Colombo, Sri Lanka

Professional Certifications

Data Science Bootcamp | 2017

AWS Cloud Fundamentals

Interpersonal Skills

- Visionary Leadership
- Effective Communication
- Multitasking & Adaptability
- Strategic Planning
- Problem-Solving
- Critical Thinking
- Cross Cultural Relationships

Languages

English - Fluent  
Sinhalese - Native  
German - Conversational

References

Available upon request

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## PROFESSIONAL EXPERIENCE

- Senior Software Engineer / Team Lead | AMERCK Inc. - Colombo, Sri LankaJan 2025 - Present
- **Cloud Infrastructure:** Led platform migration to AWS (EC2, RDS), reducing infrastructure costs by 30% and improving uptime and scalability.
  - **Microservices Architecture:** Directed Docker- and Nginx-based microservices implementation, enhancing system modularity and deployment agility.
  - **Healthcare Product Development:** Deployed real-time analytics and a drug interaction checker, improving clinical safety and reducing errors by 25%.
  - **System Optimization:** Achieved a 30% reduction in EMR platform load times through backend optimization and streamlined system workflows.
  - **Telco Automation:** Expanded telecom testing coverage by 30% via automation and network simulation enhancements for German client.
  - **Workflow Efficiency:** Shortened telecom test cycles by 25% by thoroughly redesigning execution workflows and refining reporting processes.
  - **DevOps Enablement:** Introduced CI/CD pipelines using GitLab CI and PM2, driving faster, more reliable release cycles.

- Software Engineer / Team Lead | AMERCK Inc. - Colombo, Sri LankaJan 2023 - Jan 2025
- **End-to-End Delivery:** Spearheaded the complete SDLC for telecom and sustainability projects, recovering delays and restoring timelines.
  - **Cross-Functional Leadership:** Managed team coordination, technical decision-making, and stakeholder engagement across distributed teams.
  - **Client-Centric Focus:** Maintained high client satisfaction by delivering technical solutions with transparent updates and milestone tracking.

- Software Engineer Intern | AMERCK Inc. - Colombo, Sri LankaJan 2022 - Jan 2023
- **Backend Development:** Designed, developed, and maintained backend services using Node.js and MySQL, supporting scalable APIs for enterprise-grade platforms.
  - **Deployment Operations:** Supported CI/CD pipelines with GitLab, Nginx, and PM2, enabling secure, automated deployments and improving release consistency.

- R&D Engineering Intern | C3 Digital Signage Solutions PVT. Ltd - Colombo, Sri LankaFeb 2022 - Aug 2023
- **Hardware-Software Integration:** Built C# applications for GNSS calibration and automated control systems deployed at Colombo Port (SAGT) for operational efficiency.
  - **Device Prototyping:** Developed embedded system software in C++ and Python for mobile phone vending machines and CNC milling equipment (Dialog Sri Lanka).

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## TECHNICAL SKILLS

- Programming Languages:** JavaScript (Node.js, React.js, ExpressJS), TypeScript, Java, C#, C++, Python, Bash
- Frontend Technologies:** React 18, Next.js 14, Angular, Redux Toolkit, Tailwind CSS, SSR / ISR, Web Sockets, Bootstrap,
- Backend & Full Stack Technologies:** - Node.js 18 (Express 5, Nest), C# / ASP.NET 8 (Web API, EF Core), GraphQL, REST, JWT
- Databases:** MySQL, MongoDB, PostgreSQL, Redis, Firebase Firestore
- DevOps & Deployment:** Apache, Nginx, PM2, GitLab CI/CD, Git, GitHub Actions
- Cloud & Infrastructure:** AWS (EC2, ECS, RDS), DigitalOcean, Cloudflare, GCP (basic), Azure (basic)
- Tools & Utilities:** Postman, Jira, Slack, Notion, Trello
- Real-Time & Collaboration Frameworks:** Socket.IO
- AI/ML Integration:** Groq Llama 3.3, OpenAI SDK, LangChain (basic), LlamaIndex (learning), Google AI Studio
- ERP & LMS Systems:** Odoo ERP (Customization & Integration), Moodle LMS (Integration)