

Iranga Basnayake

Senior System Analyst · IT Infrastructure & Process Automation

Medawala Road, Katugasthota, Kandy, Sri Lanka · +94 77 484 7694 · irangabasnayake@outlook.com

Results-oriented IT professional with 20+ years of experience in system design, IT infrastructure, and process automation across apparel manufacturing. Currently leading automation, mobile, and AI initiatives at MAS Holdings — including LLM-based solutions, an enterprise mobile app, and a plant-wide digital audit rollout. Master's in Computer Science (First Class) with a strong interest in applying machine learning and human-AI interaction research to real-world industrial problems.

EXPERIENCE

Senior System Analyst

2021 — Present

MAS Holdings — MATRIX · Sri Lanka

- Lead the design, development, and operation of software systems that automate production processes, directly reducing manual workload and delivering measurable financial benefits.
- Drive AI/LLM initiatives — including a fully on-premises LLM assistant on Ollama + Open WebUI — alongside mobile application rollouts and digital audit transformation across the plant.
- Own IT infrastructure strategy and cost-saving initiatives; partner with cross-functional stakeholders to translate business needs into scalable technical solutions.

System Analyst

2020 — 2021

MAS Holdings — MATRIX · Sri Lanka

- Collaborated with internal departments to develop cost-saving initiatives and plan the annual IT budget, ensuring efficient resource allocation and financial stability.
- Gathered requirements, designed solutions, and coordinated implementation for process automation projects.

System Administrator

2016 — 2020

MAS Holdings — MATRIX · Sri Lanka

- Administered Windows Server environments, Active Directory, SharePoint site design, and NAS-based data backups using Acronis.
- Implemented Teramind DLP and Xcitium AV across the organisation; managed user lifecycle and access control.

Executive — ICT

2011 — 2016

Brandix Intimates · Sri Lanka

- Provided end-user support on Mac and Windows platforms; resolved hardware, software, and network issues to minimise downtime.
- Managed LAN infrastructure, network monitoring, and security configurations to safeguard data integrity and confidentiality.

IT Assistant

2008 — 2011

Hela Clothing (Pvt) Ltd · Sri Lanka

- Managed user support operations and troubleshoot hardware and software issues across the organisation.

Network Administrator

2004 — 2008

Foundation Garments (Pvt) Ltd · Sri Lanka

- Diagnosed and resolved daily network issues, monitored performance, and enhanced reliability of the LAN environment.
- Provided technical support and collaborated with IT teams to maintain a secure, stable network.

KEY PROJECTS

On-Premises LLM Assistant (2025 — Present)

Designed and deployed a fully on-premises AI assistant to serve internal user requests without exposing company data to third-party cloud AI services — protecting MAS intellectual property and sensitive business data. Built on Ollama with an Open WebUI front-end, running open-source LLMs on an HP ProLiant Gen9 server. Led hardware sizing, model selection, and performance tuning within tight GPU/NPU constraints; defined the roadmap for GPU upgrades and scaling to additional use cases.

Stack: Ollama, Open WebUI, open-source LLMs (Llama / Mistral family), Linux, Docker, HP ProLiant Gen9, GPU/NPU acceleration

eSlip Mobile (2024 — 2025)

Extended the existing web-based eSlip system into a cross-platform mobile application, enabling all plant employees to securely view and download their payslips on Android and iOS devices. Improved accessibility for factory-floor employees and further reduced HR administrative workload.

Stack: React Native, JavaScript, REST APIs, JWT authentication, Android & iOS, Python/Django backend, MS SQL Server

iAuditor (SafetyCulture) Rollout (2024)

Led the end-to-end rollout of iAuditor (SafetyCulture) across the plant — replacing paper-based checklists and inspections with digital audits. Owned vendor engagement, template design, user training, and change management, lifting audit compliance and data visibility for operations and EHS teams.

Stack: SafetyCulture (iAuditor), digital form design, REST API integrations, Power BI / dashboard reporting

T&A (Critical Path) System

Led the development of an advanced automated critical-path-analysis system, achieving a 65% reduction in manual work and measurable efficiency gains across all production units.

Stack: Python, Django, Django REST Framework, HTML/CSS/JavaScript, Bootstrap, PostgreSQL, scheduled jobs / task queues

E-Slip System (Web)

Designed and rolled out a web system to automate paysheet distribution for all plant employees, reducing HR workload by ~20%.

Stack: Python, Django, Django templates, HTML/CSS/JavaScript, Bootstrap, MS SQL Server, SMTP e-mail integration, role-based access control

KOT System

Digitised manual entries and report generation workflows, eliminating paper-based handoffs and improving reporting turnaround.

Stack: .NET / C#, ASP.NET, HTML/CSS/JavaScript, Bootstrap, MS SQL Server, Crystal Reports / SSRS

Movement Tracking System

Delivered a full-stack system to track employee on-floor movements, providing HR with insights into patterns of activity during work hours.

Stack: Python, Django, React, HTML/CSS/JavaScript, Tailwind CSS, PostgreSQL, REST APIs, RFID / barcode integration

Automated Backup Solution

Implemented preventive maintenance strategies and automated backup for on-premises servers, significantly reducing equipment downtime and data-loss risk.

Stack: Acronis Backup, Windows Server, NAS storage, PowerShell automation, monitoring & alerting

SKILLS

| | |
|-----------------------------|--|
| Languages | Python, C#, JavaScript, TypeScript, SQL, HTML5, CSS3, PowerShell, Bash |
| Backend / Frameworks | Django, Django REST Framework, ASP.NET / .NET, Node.js, REST APIs, JWT auth |
| Frontend | React, React Native, Django templates, HTML/CSS/JavaScript, Bootstrap, Tailwind CSS, responsive design |
| Databases | MS SQL Server, PostgreSQL, SQLite, database design, stored procedures, optimisation |
| AI / LLM | On-premises LLM deployment (Ollama, Open WebUI), open-source LLMs, prompt engineering, GPU/NPU-aware deployment |
| Mobile | React Native, cross-platform Android & iOS delivery, REST integration, app-store release management |
| Infrastructure | Windows Server, Active Directory, SharePoint, Linux, Docker, HP ProLiant, NAS / Acronis backup, Teramind DLP, Xcitium AV |
| Digital Ops | iAuditor (SafetyCulture), digital forms, audit & compliance workflows, Power BI / reporting |
| Professional | Functional consulting, requirements gathering, stakeholder management, vendor engagement, team leadership |

EDUCATION

| | |
|---|------|
| Master's in Computer Science — First Class Cardiff Metropolitan University · United Kingdom | 2020 |
| Bachelor's in Software Engineering — Second Upper Class London Metropolitan University · United Kingdom | 2017 |

PERSONAL

Date of birth: 03 January 1984 · Civil status: Married

REFERENCES

Anton Arumugam — Senior Vice President, DFCC Bank · +94 77 771 2523

Mirando Chaminda — Director Operations, MAS Holdings — MATRIX · +94 77 699 9411