

JALITHA THARINDU

FULL-STACK DEVELOPER

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SUMMARY

Performance-driven Computer Science undergraduate at IIT and Full-Stack Developer with a specialization in high-performance backend systems. Creator of MLWA, a platform serving 3,000+ users, with deep expertise in Python (Quart), JS, MongoDB, and clustered server architectures. Seeking a Software Engineering Internship to leverage my experience in scalable cloud infrastructure and production-level engineering to contribute to innovative software teams.

TECHNICAL SKILLS

- **Languages:** Python (Advanced), JavaScript (ES6+), HTML5, CSS3, SQL
- **Frameworks & Libraries:** Quart (Async), FastAPI, Node.js, Electron.js, React.js
- **Database & Storage:** MongoDB (NoSQL), Redis, PostgreSQL
- **DevOps & Cloud:** Nginx (Load Balancing, Reverse Proxy), Docker, Linux (Ubuntu), Git/GitHub, Cloudflare, LXC Containers, Mailcow
- **Tools & Concepts:** REST APIs, WebSockets, Asynchronous Programming, Clustered Architecture, System Administration, Rclone

SOFT SKILLS

- Technical Leadership, Client Relationship Management, Agile/Scrum Methodology, Complex Problem Solving, Open Source Collaboration.
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PROFESSIONAL EXPERIENCE

TSSC Hosting Solutions

Jan 2024 – Present

Founder & Lead Systems Administrator | Self-Employed

- Founded and managed a boutique hosting provider specializing in privacy-focused applications (Nextcloud, Jellyfin, VPN servers) and custom server solutions.
- **Infrastructure Management:** Provisioned and maintained high-performance Linux servers (AMD EPYC, NVMe) to host different types of applications with a **99.9% uptime SLA**.
- **DevOps & Automation:** Engineered automated deployment workflows using Docker and custom scripts, reducing average service deployment time to <1 hour.
- **Service Architecture:** Deployed and configured complex networking stacks including WebDAV servers, Telegram Mirror Bots, and VPN Managers with military-grade encryption.
- **Client Success:** Provided 24/7 technical support and custom server consulting, handling server provisioning, optimization, domain management, and troubleshooting for end-users.

EDUCATION

BSc (Hons) in Computer Science

Expected 2027

Informatics Institute of Technology (IIT), Sri Lanka

- **Academic Performance:** First Class Honours (Year 1 Average: 81%)

Certifications

- **Google Professional Certifications:** IT Support Fundamentals, Python Programming (2022).
 - **Cisco Networking Academy:** IT Essentials & Cybersecurity Fundamentals (2021).
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KEY PROJECTS

MLWA Cloud Ecosystem | Lead Developer

[Live Site](#) / [GitHub](#)

- **Full-Stack Suite:** JavaScript, Python (Quart), Node.js, MongoDB, Electron, Nginx, Docker
- **Core & Drive:** Architected a high-availability file management platform serving **3,000+ users**. Deployed a clustered Nginx load balancer across **4 servers** to handle concurrent traffic and optimize data retrieval.
- **MLWA Connect (Desktop):** Built a native cross-platform client (Windows/Linux) using Electron.js and Node.js. Implemented deep system tray integration and offline functionality for seamless file synchronization.
- **MLWA Drive:** Built a privacy-first Google Drive competitor that ensures total user control, implementing dual-layer encryption and full support for WebDAV, API, and web access.
- **DevOps & Observability:** Containerized all microservices using Docker and maintained transparency with a public [status page](#) to monitor real-time system health and uptime.

Echo (AI Assistant Bot) | Open Source Developer

[Live Demo](#) / [GitHub](#)

- **Tech Suite:** Python, Telegram API, LLM Integration
- Developed a productivity bot integrating Large Language Models (LLMs) for natural language processing.
- Implemented robust rate-limiting algorithms and user session management to prevent API abuse and ensure server stability under high load.

Contactgram | Creator & Maintainer

[GitHub](#)

- **Tech Suite:** Python, MongoDB, Telegram API [python-telegram-bot]
- Built a multi-admin customer support bot allowing teams to manage user inquiries via a centralized Telegram interface.
- Designed a permission-based command system allowing admins to broadcast messages, ban users, and handle tickets efficiently.

Software Development Group Project | Backend Developer & Deployment Manager

- Led backend architecture and full-stack development of RouteNX, a real-time GPS fleet tracking system for public transit. Authored the majority of the codebase spanning ESP32 firmware (OTA updates, JWT auth), Node.js/Express REST API, React dashboard with Google Maps integration, Socket.IO real-time notifications, and CI/CD pipelines with Docker deployment on a dedicated Ubuntu root server.
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REFERENCES AVAILABLE UPON REQUEST