



Portfolio

# Tharuki Jayasuriya

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## SUMMARY

**Undergraduate Computer Science** student at the **University of Westminster** with hands-on experience in full-stack web development using Next.js. Proven ability to lead technical teams in collaborative projects, driven by a commitment to engineering high-quality, professional digital solutions. Comprehensive project documentation is available at [tharukijayasuriya.com](http://tharukijayasuriya.com).

## TECHNICAL SKILLS

**Frontend:** Next.js, React.js, Angular, Vite.js, Tailwind CSS

**Backend , DataBase Cloud:** JavaScript, FastAPI, MySQL, Vercel, Render, MongoDB, Cloud

**Programming Languages:** TypeScript, JavaScript, Python, Java, C++, C#, SQL, HTML5/CSS3

**Dev Tools IDEs:** Git, Docker, IntelliJ, Figma, Canva, NetBeans, IDLE, Antigravity

## PROJECTS

### Techzaz EDR Dashboard | Endpoint Detection and Response Platform

2025

- Developed a modern Endpoint Detection and Response (EDR) dashboard for centralized **security monitoring, alert visualization, and endpoint management, providing real-time visibility into endpoint health, detected threats, and historical security activity.**
- Designed a three-layer architecture consisting of an **Endpoint Agent, Cloud Backend, and Web Dashboard, with detection executed on the agent side while the cloud managed storage, tenant isolation, user roles, and alert distribution.**
- Implemented an agent-side Detection Engine with **Host-based Intrusion Detection System (HIDS) and Malware Detection System (MAL) modules** to identify suspicious process execution, malicious file behavior, abnormal network activity, persistence attempts, and known malicious hashes.
- Engineered the platform using **Angular for the frontend and FastAPI for the backend, enabling a responsive dashboard, REST API integration, scalable services, and secure role-based access** control for admin and viewer users.
- **Tech:** Angular, FastAPI, Firestore, JWT, Docker
- **Link:** [Techzaz EDR](#)
- Production site temporarily offline following client hand-over; providing this mirror for technical assessment.
- **Link:** <https://techzazedr-frontend-production.up.railway.app/>

### Flex-Slot-Custom | healthcare scheduling

2025

- **System Architecture:** Developed a multi-tenant SaaS platform tailored for medical and veterinary clinics, featuring a high-concurrency booking engine that prevents double-bookings using advanced locking mechanisms.
- **AI Integration:** Integrated a self-hosted LLM (Ollama) to act as a business assistant, automating patient engagement workflows and generating predictive analytics for clinic owners.
- **Real-Time Orchestration:** Built a background task system using Redis to handle automated email dispatch and seamless Google Calendar synchronization.
- **Tech:** Next.js, TypeScript, Framer Motion, FastAPI (Python), PostgreSQL
- **Link:** <https://flex-slot-custom.vercel.app/>

### Incognito Game | Real-Time Chat Web App (Ongoing)

2025

- Developing a **real-time chat web** application with an interactive frontend and live browser-based communication experience.
- Structured the project with a dedicated chat application setup and maintained the full source code in a public GitHub repository.
- **Tech:** JavaScript, CSS, HTML, Vercel
- **Link:** <https://real-time-chat-app-six-rho.vercel.app/>

## TECHNICAL MINI-PROJECTS

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### Sitesplus SEO | Technical Web Auditor

2026

- **Core Function:** Developed a high-speed tool that scans any website to find technical SEO gaps and calculates an instant "Health Score."
- **Data Retrieval:** Used **Next.js Server Actions** to securely fetch raw HTML from external domains, successfully bypassing browser **CORS** security restrictions.
- **HTML Parsing:** I integrated **Cheerio** to transform messy web code into a searchable tree structure, allowing my logic to extract meta tags and headers efficiently.
- **Tech:** Next.js, TypeScript, Tailwind CSS, Cheerio, Vercel
- **Link:** <https://seo-lens-ud2o.vercel.app/>

### AI Meme Generator | Generative Web App

2026

- Built a fast, interactive web application that leverages external APIs to dynamically generate context-aware images and memes.
- Designed a responsive and user-friendly frontend interface utilizing Next.js for seamless, real-time prompt-to-image generation.
- **Tech:** TypeScript, REST APIs, JavaScript, Tailwind CSS
- **Link:** <https://ok-meme-studio-h43vthffx-tharukijs-projects.vercel.app/>

### Flux Audit | Marketing Intelligence Dashboard

2026

- **Core Function:** Engineered a premium diagnostic engine that transforms manual social media audits into an interactive.
- **Aesthetic & UI/UX:** Implemented a sophisticated **Glassmorphism** and **Antigravity** interface using **GSAP** for floating element animations, ensuring a high-end, futuristic experience for enterprise clients.
- **Tech:** SvelteKit 5, TypeScript, Tailwind CSS, GSAP, Lucide-Svelte.
- **Link:** <https://flux-audit-roan.vercel.app/>

## EDUCATION & CERTIFICATIONS

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### Informatics Institute of Technology (IIT), Sri Lanka

2024 – Ongoing

*BSc (Hons) in Computer Science (UG), University of Westminster, London*

### Newstead Girls College, Negombo

Completed: 2024

*G.C.E. Advanced Level – Commerce Stream*

3C Passes

### Aquinas College of Higher Studies

Completed: 2024

*Diploma in English*

## LEADERSHIP & VOLUNTEERING

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Sports Club, Newstead Girls College, Negombo

2022 – 2024

## REFERENCES

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