Sansith Fernando

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PROFESSIONAL SUMMARY

Computer Science student with a focus on high-performance web applications and systems programming. Experienced in developing cross-platform desktop tools and full-stack environments using TypeScript and Rust.

EDUCATION

BSc. (Hons) Computer Science   Expected: Nov 2028
University of Westminster, London

Relevant Coursework: Advanced Client-side Development (React), Machine Learning & Data Mining, Object-oriented Programming (Java) and Database Systems (SQL/NoSQL)

Foundation Certificate in Higher Education   2023 - 2024
Informatics Institute of Technology, Colombo

Distinction

WORK EXPERIENCE

Business Analyst (Trainee)   Jul 2024 - Sep 2024
S. P. Solutions (Pvt) Ltd.

- Analyzed software lifecycles for major banking clients and produced technical documentation/process maps using Visio.

- Collaborated with cross-functional teams to translate complex client requirements into technical tasks.

SKILLS

Languages
Proficient in TypeScript/JavaScript, Rust; Familiar with Java, Python, C++.

Frontend/Desktop
React, Next.js, Svelte, Astro, Tailwind CSS, Tauri, Electron.

Backend/DevOps
Node.js, Elysia.js, SQL/NoSQL, Docker, CI/CD, Git.

Specialized
RAG (AI), Win32/WinRT Integrations, Agile/Scrum.

PROJECTS

Nymo - Unified E-commerce Platform & AI-Styling Partner

- Architected a full-stack MVP using Next.js and Elysia.js, currently being developed with 10 local brands for pilot testing.

- Designed a cross-platform mobile experience using React Native to bridge web and mobile commerce.

XEDITOR *- High-Performance Markdown Knowledge Manager*

- Built a lightweight desktop editor using Svelte and Tauri, emphasizing speed and resource efficiency.

- Integrated on-device AI for content generation and rewrite suggestions using Retrieval-Augmented Generation (RAG) for privacy-focused context awareness.

Musicer *- Low-Latency Rust Audio Engine*

- Engineered a custom audio engine in Rust, utilizing low-level Win32/WinRT API integrations for OS media controls.

- Currently integrating the engine into a cross-platform music player using Svelte and Tauri.

FurEver Connect *- Welfare Platform for Stray Animals*

- Designed and prototyped a platform connecting communities with volunteers and veterinary services.

- Awarded **Top 5 Project** and featured at the **CuttingEdge 2024** exhibition.

ACHIEVEMENTS & EXTRACURRICULAR

- **Member** - Web and Technical Commitee of The IEEE Student Branch of IIT

- **Competitions** - IEEEXtreme 2025, ModelX 2025, IX 2025