

G.M.E. Hansika

Intern Software Engineer

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[Github](#) — [Linkedin](#) — [Medium](#) — [Portfolio Website](#)

PROFESSIONAL SUMMARY

Motivated and enthusiastic BICT (Hons) undergraduate at the University of Vavuniya with a strong passion for Software Engineering and Full-Stack Development. Proven experience in building scalable web applications using MERN, Next.js and .NET Core technology stacks. Passionate about Semantic Computing and NLP, with active research contributions at IYKONS Industry Research Park. Committed to delivering high-quality, user-centered software solutions while leveraging Agile methodologies to thrive in collaborative industry environments.

EDUCATION

Bachelor of Information and Communication Technology (Hons)

University of Vavuniya

2023 – Present

TECHNICAL SKILLS

- 1. Programming Languages:** JavaScript, TypeScript, C#, Python, HTML5, CSS3
- 2. Frontend Technologies:** React.js, Next.js, Tailwind CSS, Framer Motion, State Management (Redux/Context API), Vite
- 3. Backend Development:** ASP.NET Core Web API, Node.js, Express.js, REST APIs
- 4. Databases:** SQL Server, MongoDB, Database Design
- 5. Data Science & NLP:** KeyBERT, YAKE, RoBERTa, spaCy, BERT, Semantic Computing, Natural Language Processing
- 6. Tools & Platforms:** Git, GitHub, Docker Hub, Jira, Postman, Swagger, Google Colab, Hugging Face, Figma
- 7. Concepts & Methodologies:** OOP, Agile Methodology, Software Engineering, Sprint Planning, Collaborative Development

PROJECTS

- 1. SillaraAI** 2026 – Ongoing
A trilingual AI E-Commerce co-pilot for SMEs, featuring AI-driven inventory management, multilingual semantic search, and voice-first interfaces.
Technologies Used: React.js, Tailwind CSS, Vite, Framer Motion, Postman, GitHub, Git, MERN Stack, MongoDB Atlas Vector Search
[\[GitHub Repository\]](#)
- 2. SkillPivotlk** 2025 – 2026
A centralized career platform for IT students featuring AI-powered CV customization, skill-gap analysis, and advanced job role discovery using NLP.
Technologies Used: React.js, Tailwind CSS, Vite, ASP.NET Core, SQL Server, Swagger, GitHub, Git
[\[GitHub Repository\]](#)
- 3. Semantic Search Engine** 2026
An advanced document retrieval system using cross-domain semantic vector embeddings and cosine similarity scoring for context-aware searches.
Technologies Used: Python, Gradio, Sentence-Transformers, Google Colabs, Hugging Face, GitHub, Git
[\[GitHub Repository\]](#)
- 4. Kronix Agency** 2026
A professional agency landing page focusing on scalable architecture, clean code (DRY principle), and high-performance UI/UX design.
Technologies Used: React.js, Tailwind CSS, Framer Motion, Figma, Vite, GitHub, Git
[\[GitHub Repository\]](#)

RESEARCH EXPERIENCE

1. Undergraduate Researcher – Semantic Computing — IYKONS Industry Research Park 2026 – Present

Focus: NLP-based keyword extraction and transformer models for document analysis.

2. Independent Researcher – AI Career Systems — University of Vavuniya 2026 – Present

Focus: AI-Driven Skill Gap Analysis and automated CV generation framework.

3. Final Year Researcher – Strategic Planning Systems — University of Vavuniya 2026 – Present

Focus: Digitization of strategic, action, and financial systems with database security.

VOLUNTEERING & CONTRIBUTIONS

1. Lab Assistant & Student Mentor 2026

- Facilitated technical workshops during the 10-Day Intensive Processing Bootcamp at the University of Vavuniya & IYKONS Ltd.
- Guided students on Agile/GitHub workflows and mentored them on professional project pitching.

2. Open Source Contributor 2026 – Present

- Actively contributed to Social Summer Of Code (SSoC) Season 5, focusing on large-scale React.js projects.
- Optimized frontend code and resolved complex real-world technical issues.

3. Member of IYKONS Industry Research Park 2026 – Present

- Contributing to NLP-driven document analysis and developing advanced keyword extraction frameworks.
- Collaborating with industry experts to bridge the gap between academic research and scalable software solutions.

4. Active Member 2023 – Present

- Buddhist Society, University of Vavuniya.
- Coordinated and supported community service projects, fostering teamwork and social responsibility.

SOFT SKILLS

• **Soft Skills**

Agile Collaboration, Analytical Problem-solving, Technical Documentation, Design Thinking, Public Speaking & Announcing, and Adaptable Quick Learner.

LANGUAGE PROFICIENCIES

• **Sinhala**

Native Proficiency

• **English**

Professional Working Proficiency (Capable of technical documentation and team communication)

CERTIFICATIONS

• **General Conversational English** 2023

The English Bank

• **Letter of Appreciation – Coding Bootcamp x Software Solution Development** 2026

Recognized by the University of Vavuniya and IYKONS Ltd. for exceptional support, leadership in practical sessions, and commitment as a Lab Assistant.

REFEREES

Mr. V. Senthoooran

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