KARISTER STEEPAN THUVISHAN

SOFTWARE ENGINEERING STUDENT | EMERGING SOFTWARE DEVELOPER | TECHNOLOGY & INNOVATION EXPLORER

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PROFESSIONAL PROFILE

Software Engineering student pursuing a Pearson BTEC HND at ESOFT UNI Jaffna, with a completed Level 3 Diploma in Information Technology and ongoing G.C.E. Advanced Level studies. Interested in software and application development, AI-assisted prototyping, databases, networking, human-computer interaction and emerging technologies. Builds academic projects, explores technical concepts and documents learning through coursework and independent investigation. Early-career profile grounded in study, project work and experimentation.

EDUCATION AND QUALIFICATIONS

- **Junior Certificate in Computer Studies** – DBMS Computer Education | 2020
- **Certificate in English Language** – DBMS Computer Education | 2020
- **Project-Based Learning Programme – Certificate of Achievement**
  Meraki Minds, Australia | 2025
- **English Language Scholarship Programme – Merit Pass**
  John Keells Foundation | 2022
- **Pearson BTEC HND in Software Engineering** | **CURRENTLY PURSUING** - ESOFT UNI Jaffna
- **Diploma in Information Technology - Level 3** | **COMPLETED** - ESOFT UNI Jaffna
- **G.C.E. Advanced Level - Arts Stream** - 2028 A/L batch. Subjects: English Literature, Information and Communication Technology (ICT), Media | **CURRENTLY STUDYING**

TECHNICAL SKILLS AND COMPETENCIES

Software Development: HTML, CSS, JavaScript fundamentals, C#, SQL, PHP fundamentals, Git and GitHub; web and desktop application development

AI and Digital Prototyping: AI-assisted coding, prompt-based workflows, no-code and low-code solutions, rapid prototyping, interface experimentation

IT Infrastructure and Systems: Cisco Packet Tracer, networking fundamentals, VLAN concepts, routing fundamentals, database design, Windows troubleshooting

Research and Creative Technology: Technical documentation, literature-based investigation, feasibility exploration, UI/UX exploration, digital media, technology concept development

SELECTED PROJECTS

- **KST Developer Workbench / ULTRON OS** - Experimental developer-workspace concept for integrated software-development and AI-assisted workflows, exploring orb-based visual elements and gesture interaction. Stage: prototype and experimentation.
- **SwimPro Academy** - Academic C# Windows Forms application project exploring academy-management workflows and database integration.
- **Student Management System** - Academic software and database project focused on student records and administrative workflows.
- **Fashionista Enterprise Network** - Cisco Packet Tracer coursework project covering multi-site network architecture, VLAN segmentation, IP addressing, routing, wireless infrastructure and server integration.
- **E-Cey** - Academic database project involving relational data modelling, SQL implementation and technical documentation.

- **ScholarFlow – Student Academic Management Web Application**
  Project-Based Learning (PBL) Project - Developing a web-based application designed to streamline student academic management and improve access to educational resources. Focused on creating an intuitive user interface and implementing functional web application features.

RESEARCH AND INNOVATION EXPLORATIONS

- **Biological Approaches to Battery-Material Recovery** | **PRELIMINARY EXPLORATION** - Literature-based exploration of bioleaching, biosorption, local biomass applications, waste reduction and environmental trade-offs. No laboratory results are claimed.
- **HarvestGuard - AgriTech Concept** | **EARLY-STAGE; VALIDATION REQUIRED** - Early-stage concept for coordinating agricultural harvesting, grading, reusable crates, collection, buyer orders and delivery. Stakeholder validation remains required.
- **Biomimetic Fibres** - Literature exploration of spider-silk-inspired material properties, including strength, elasticity and recovery. No material synthesis is claimed.
- **Gesture-Controlled Wearable Interface** - Concept exploration involving safe gesture interaction, sensor integration, human-computer interaction and embedded-system architecture; not a commercial product.

CERTIFICATIONS

- **Java Developer** - Codingal
- **Advanced Frontend Developer** - Codingal
- **Junior Python Programmer** - Codingal
- **ICDL Digital Citizen Plus**

LANGUAGES

Tamil -Native; English -Professional learning and communication; Sinhala -Elementary; German -A1.

PROFESSIONAL STRENGTHS

Analytical thinking; strategic planning; academic discipline; logical reasoning; system-design thinking; cross-cultural communication; resilience; attention to detail; continuous learning; leadership; teamwork; patience; adaptability; problem solving; self-motivation.