

Dharane Segar

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Summary

Software Engineering graduate from the Sri Lanka Institute of Information Technology (SLIIT) with First Class Honors and a strong foundation in programming, software engineering principles, and data-driven system development. Currently working as a Software Engineer, with hands-on experience gained through industry roles and applied academic projects involving intelligent and data-centric systems. Seeking postgraduate study in Artificial Intelligence or Data Science to strengthen practical expertise and advance career growth in technology-focused roles.

Education

Sri Lanka Institute of Information Technology (SLIIT) BSc (Hons) in Information Technology specializing in Software Engineering	Jun 2021 – Sep 2025
<ul style="list-style-type: none">• First Class Honors CGPA: 3.85 / 4.0• Gold Medal for Academic Excellence (2025)• Best Performance Award – Software Engineering (2025)• Dean's List: Year 1–4 (multiple semesters)	

Hindu Ladies' College, Colombo Jan 2007 – Oct 2020

- GCE Advanced Level (2020): Combined Mathematics (A), ICT (B), Physics (C), General English (A)
- GCE Ordinary Level (2017): 9 As

Experience

Software Engineer , GTN Tech – Sri Lanka	Nov 2025 – Present
<ul style="list-style-type: none">• Developed and maintained full-stack features for the GTN Axis Admin Terminal, an enterprise platform used to manage users, customers, and institutions within the GTN Trade ecosystem.• Implemented scalable application workflows using React.js, Spring Boot, GraphQL (DGS), and PostgreSQL.• Worked in an Agile, cross-functional team environment to deliver production-ready features using collaborative version control practices.	

Software Engineer Intern, WSO2 – Sri Lanka Aug 2023 – Jan 2024

- Contributed to backend service development and API exposure using WSO2 integration technologies.
- Built and customized industry-specific demo solutions for banking and airline use cases.
- Containerized applications using Docker and maintained well-documented GitHub repositories.
- Collaborated with cross-functional teams to ensure usability and adaptability of solutions.

Research & Academic Projects

BioMentor – Intelligent Summarization Tool for A/L Biology	Link
<ul style="list-style-type: none">• Developed an NLP-based educational summarization system using transformer-based models (Flan-T5) to support multilingual note generation, keyword extraction, and voice output.• Implemented retrieval-augmented generation (RAG) using FAISS to improve content relevance and factual accuracy.• Tools: Python, FastAPI, Hugging Face, FAISS, MongoDB, Docker, Azure.	
Solar Flare – Virtual Try-On System for Optical Retail	Link
<ul style="list-style-type: none">• Built a computer vision-based virtual try-on system enabling real-time eyewear fitting using webcam input.• Applied OpenCV for face detection and alignment to enhance accuracy and user interaction.	

- Tools: Python, OpenCV, React.js, Node.js, MongoDB.

LearnHub – E-Learning Platform

[Link](#)

- Designed an online learning platform using a microservices architecture to support course management, enrollment, and progress tracking.
- Tools: React.js, Node.js, MongoDB, Docker.

iCorner – E-Commerce Web and Mobile Application

[Link](#)

- Developed a full-stack e-commerce system supporting inventory management, order processing, and role-based access control.
- Implemented backend services and transactional workflows for multi-vendor order management.
- Tools: C#, ASP.NET, React.js, MongoDB, Java, Android Studio.

Publications & Research Presentations

Empowering A/L Biology in Sri Lanka: BioMentor, a Student-Centric Platform for English Medium Students
Research Paper Presentation, ICCCNT 2025

BioMentor – Personalized E-Learning Platform for A/L Biology Students

Tuijin Jishu / Journal of Propulsion Technology, 2025

[Link](#)

Enhancing E-Commerce Experience through Virtual Fitting Rooms

Tuijin Jishu / Journal of Propulsion Technology, 2023

[Link](#)

Honors & Awards

Gold Medal for Academic Excellence: Awarded for outstanding overall performance, SLIIT (2025)

Best Performance Award: Highest achiever in Software Engineering specialization, SLIIT (2025)

Dean's List Award: Year 1 Semester 1 & 2, Year 2 Semester 1 & 2, Year 3 Semester 2, Year 4 Semester 1 & 2

Technical & Professional Skills

Programming Languages: Python, Java, JavaScript, TypeScript, C#, Kotlin, HTML, CSS

AI & Backend Technologies: FastAPI, Spring Boot, Node.js, Express.js, REST APIs, GraphQL

Frontend Technologies: React.js, Next.js, Redux, Material UI, Bootstrap, Tailwind CSS

Mobile Development: Android (Kotlin, Java), Flutter

Databases: PostgreSQL, MySQL, MSSQL, MongoDB

Tools & Platforms: Docker, Git, GitHub, GitLab, Azure, Linux, Postman, Jira, Figma, UML, Markdown

Professional Skills: Teamwork, Clear communication, Problem-solving, Leadership, Time management

References

Ms. Karthiga Rajendran

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