

Dharane Segar

Colombo, Sri Lanka | dharaneseGAR08@gmail.com | +94 77 889 36 15 | Portfolio

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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) Jun 2021 – Sep 2025
BSc (Hons) in Information Technology specializing in Software Engineering

- **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

- 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](#)

- 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](#)

- 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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Dr. Jeewanee Bamunusinghe

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