

# Dharane Segar

Colombo, SriLanka | dharaneseagar08@gmail.com | 9477 889 36 15 | dharane-segar-portfolio

linkedin.com/dharane-segar | github.com/DharaneSegar

## Summary

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Motivated final-year Software Engineering undergraduate at SLIIT, passionate about using technology to solve real-world problems. Skilled in programming, development methodologies, and multitasking. Eager to contribute to a progressive organization as a software engineer while enhancing my skills and expertise.

## Experience

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**Software Engineer Intern**, WSO2 – SriLanka Aug 2023 – Jan 2024

- Learned and applied WSO2 technologies efficiently using existing programming knowledge.
- Built reusable demos for banking and airline industries, including credit card systems and loyalty programs.
- Created backend services with WSO2 tools, exposed them as Managed APIs.
- Dockerized demos, managed source code on GitHub, and documented usage and customization.

## Education

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**Sri Lanka Institute of Information Technology (SLIIT)**, BSc (Hons) in Information Technology Specializing in Software Engineering June 2021 – Present

- CGPA: 3.82/4.0

**Hindu Ladies' College, Colombo – 06**, Jan 2007 – Oct 2020

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

## Projects

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**iCorner - e-Commerce Web and Mobile Application** Link

- It includes a web application for managing users, products, orders, and inventory, along with a mobile application for customers to browse products, place orders, and track their status. Supports features like role-based access, real-time notifications, and multi-vendor order management.
- Tools Used: C#, ASP.NET, React.js, Bootstrap, MongoDB, Java, Android Studio, IIS.

**LearnHub - e-Learning Platform** Link

- An online educational platform implemented in microservices architecture for course browsing, enrollment, and progress tracking. It includes tools for instructors to manage courses, administrators to oversee the system and payments, and learners to access multiple courses.
- Tools Used: React.js, Node.js, MongoDB, Docker, Docker Compose, Tailwind CSS

**University Timetable Management System** Link

- A RESTful API backend system designed to manage a University Timetable Management System. It provides functionalities for handling course scheduling, room bookings, student enrollments, and automated notifications.
- Tools Used: Node.js, Express.js, MongoDB.

**Solar Flare - Web application for an optical store** Link

- A web-based platform for an optical store that allows users to virtually try on glasses using their device's camera. It enables browsing a wide range of styles, providing a personalized and interactive shopping experience.
- Tools Used: React.js, Node.js, Express.js, Python, OpenCV, MongoDB.

**Farm Connect - Mobile Application for farmers and customers** Link

- A mobile application connecting farmers directly with customers, enabling farmers to list their products and

customers to browse, bid on prices, and make purchases. The system sends reminders to farmers about products nearing their expiry date and offers weather monitoring features.

- Tools Used: Flutter, Dart, Node.js, Express.js, MongoDB, Figma

#### **Build Zone - Web and mobile applications for the construction industry**

[Link](#)

- This project features a web application for administrators and procurement staff, along with a mobile app for site managers, to streamline the management of purchase orders. It enhances data handling, communication, and coordination between admin and site teams.
- Tools Used: Flutter, Dart, Node.js, Express.js, React.js, MongoDB

#### **LuxuryX - e-Commerce Website and Web Application**

[Link](#)

- An e-commerce platform offering a comprehensive system to manage employees, suppliers, products, customers, orders, deliveries, promotions, and finances. With both a website and web application, it streamlines operations, from handling customer orders to managing supplier relationships and tracking finances.
- Tools Used: Node.js, Express.js, React.js, MongoDB

#### **MedPro - Healthcare Mobile Application**

[Link](#)

- This Android application allows users to book doctor appointments, schedule lab tests, and purchase medicines directly from their mobile devices.
- Tools Used: Kotlin, Android Studio, SQLite

### **Technologies**

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**Languages:** HTML, CSS, JavaScript, PHP, Java, Kotlin, C#, Ballerina

**Front End Development:** React.js, Next.js, Bootstrap, Tailwind CSS

**Back End Development:** Node.js, Express.js, Springboot, ASP.NET

**Mobile Development:** Android (Kotlin), Android (Java), Flutter, Dart

**Databases:** MySQL, MSSQL, MongoDB, SQLite

**Version Control and Software Design:** Git, GitHub, Figma, UML

**Development Tools:** Visual Studio, Eclipse, VS Code, Android Studio, IntelliJ, Docker products

**Integration and API Management:** WSO2 Micro Integrator, WSO2 API Manager, WSO2 Choreo

### **Honors & Awards**

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

### **Publications**

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**Enhancing E-Commerce Experience through Virtual Fitting Rooms: A Case Study of Real-Time Virtual Try-On for Eyewear Selection**

Nov 9, 2023

Jishu/Journal of Propulsion Technology

<https://propulsiontechjournal.com/index.php/journal/article/view/1385>

### **References**

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**Dr. Jeewanee Bamunusinghe**

PhD (Monash), BSc (Hons) (Peradeniya)

Assistant Professor - Department of Information Technology, SLIIT | Malabe Campus

jeewanee.b@slit.lk

**Ms. Geethanjali Wimalaratne**

Senior Lecturer - Faculty of Computing | Computer Science Software Engineering, SLIIT | Malabe Campus

geethanjali.w@slit.lk