



# BIHESHA DILSHAN

## SOFTWARE ENGINEER

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### CONTACT

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 128/5, Horahena Road, Kottawa, Sri Lanka.

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### PROFILE

Enthusiastic and success-driven Software Engineering professional with hands-on experience in full-stack development using JavaScript, Java, React, Next.js, React Native, C++, and Python. Skilled in building scalable solutions with expertise in Kubernetes, Docker, and CI/CD pipelines. Recognized for adaptability, problem-solving, and teamwork in agile environments, with a passion for continuous learning and delivering innovative, value-driven software solutions that create meaningful impact.

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### EXPERIENCE

#### Intern Software Engineer - IRCSL (2023 Nov - Present)

- Developed a web-based Performance Appraisal Management System using Next.js, React, and NextUI to streamline employee evaluation processes.
- Implemented role-based access control to manage appraisal workflows based on user designations and deployed and hosted internally on an IIS Server for organizational use.
- Integrated API-driven data fetching for real-time user lists, appraisal forms, and meeting schedules, ensuring dynamic updates.
- Designed responsive UI with NextUI components and Framer Motion animations for enhanced user experience.
- Developed a centralized portal for Insurance Regulatory Commission of Sri Lanka enabling secure document uploads in installments.
- Designed an Admin assignment system to dynamically allocate companies to staff members, optimizing workload distribution and oversight.

#### M.U.S. Construction

- A Construction website was created to showcase the projects they had completed in the construction department.  
**Tech Stack:** HTML, Tailwind CSS, MUI, Framer Motion, JavaScript, PHP

#### Tesla Pack

- Developed a responsive website for packaging solutions, showcasing 50+ products across multiple industries.  
**Tech Stack:** HTML, Tailwind CSS, MUI, Framer Motion, JavaScript, PHP

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### EDUCATION

#### Bachelor of Science in Information Technology Degree - Specializing in Software Engineering

(2021-2025)

Faculty of Computing,  
Sri Lanka Institute of Information Technology (SLIIT),  
Sri Lanka.

#### G.C.E. Advanced Level - Physical Science Stream (2019)

(2016-2018)

Dharmapala Maha Vidyala,  
Kottawa.

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## TOOLS & TECHNIQUES

### Libraries and Frameworks

- Next.js, Nest.js, React.js, Node.js, Laravel, jQuery, Bootstrap, MUI, Tailwind CSS, Jest,

### Databases

- MySQL, Firebase, MongoDB

### Programming

- HTML, JavaScript, PHP, Python, Kotlin, SQL, Java, CSS

### Technology Exposure

- CI/CD pipeline, Docker, Kubernetes, AWS

### Project Management Tools

- VS Code, IntelliJ IDEA, Eclipse, GitHub Projects, Visual Studio, Android Studio, Postman, Swagger

### Process & Workflow Mapping Tools

- Figma, Draw.io

### Designing & Wireframing Tools

- Figma

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## SKILLS

### Core Skills

- Full-Stack Development
- Database Management
- Version Control & Collaboration
- Problem Solving & Debugging
- Continuous Learning

### Professional Skills

- Communication and Collaboration
- Time Management
- Punctual and Efficient
- Adaptable and Keen to learn new technologies
- Great Team Player

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## PROJECTS

### Thulawa: Key-Aware Intra-Partition Parallelism extending Kafka Streams - Research Project

Developed Kafka-Thulawa, an enhanced Kafka Streams library enabling parallel event execution and fair scheduling to boost real-time stream processing throughput.

### Lecture Notes Chatbot - RAG

A simple chatbot that answers questions based on CTSE (Current Trends in Software Engineering - SE4010) lecture notes.

### Manage - Online Educational Platform

Built "Manage", an online educational platform leveraging Microservices Architecture for scalable and modular system design.

### OptiVision - Glaucoma Detection System

Developed an eye disease detection web application (cataract & glaucoma) with an appointment scheduling system using ML techniques and the MERN stack.

### CleanCircle - Waste Management Mobile Application

Developed a waste management mobile app enabling citizens to request pickups and report waste dumps, with the pickup request feature built using Kotlin, Firebase, and Google Maps API.

### FitCrib - Application for Fitness Enthusiasts

Developed a fitness management web application with a financial management module, built using the MERN stack.

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## RESEARCH & PUBLICATIONS

### OptiVision: Glaucoma and Eye Diseases Detecting System (2023)

Published research on glaucoma detection and vision-related services in the Journal of Propulsion Technology.

### Thulawa: Key-Aware Intra-Partition Parallelism extending Kafka Streams (2025)

Published research on parallel event processing and fair scheduling in Kafka Streams (Kafka-Thulawa) to improve real-time stream processing throughput in the Journal of Propulsion Technology.

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## PROFESSIONAL CERTIFICATIONS

### Sri Lanka Qualification Framework (SLQF) Level – 1 (Department of Geography, University of Colombo)

- This course covered basic computer skills, software applications, internet use, graphic design, databases, and navigation tools like Google Maps.
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