

# BIHESHA DILSHAN

## SOFTWARE ENGINEER

- No: 128/5, Horahena road, Kottawa • +94702338514 • bihesha0822@gmail.com



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My PortFolio



GitHub

### ABOUT ME

I am a motivated Software Engineering professional currently completing my degree and awaiting graduation. With a strong academic foundation and hands-on experience, I specialize in developing robust and innovative solutions across multiple technologies. My expertise spans JavaScript, Java, React Native, C++, React.js, Next.js and Python, complemented by practical experience in Kubernetes deployments, Docker optimization and CI/CD pipelines. I thrive in agile environments, enjoy solving complex challenges, and am committed to continuous learning and improvement. As a collaborative team player with strong problem-solving skills, I aim to deliver impactful solutions that drive value and innovation.

### WORK EXPERIENCE

Intern Software Engineer , IRCSL

(1 Year)

#### Performance Appraisal Management System

- 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
- **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.
- Utilized **Next-Auth** for secure **user authentication and session management**, ensuring data integrity across organizational hierarchies.
- Automated appraisal form submissions, **status tracking**, and **approval workflows**, improving efficiency and reducing manual intervention.

#### IRCSL Web Portal

- Developed a centralized portal for Insurance Regulatory Commission of Sri Lanka enabling **secure document uploads** in installments.
- **Engineered role-based access control** with distinct workflows for Admin, Staff, and external entities to manage submissions, references, and compliance.
- Implemented deficiency tracking with integrated **communication tools, allowing staff to flag issues and request updates** from external organizations.
- Designed an Admin assignment system to **dynamically allocate companies to staff members**, optimizing workload distribution and oversight.

### Client Projects

#### 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

## EDUCATION

BSc (Hons) in Information Technology specialized in  
Software Engineering  
Sri Lanka Institute of Information Technology - SLIIT

june 2021 - 2025

### Certifications

- Sri Lanka Qualification Framework (SLQF) Level – 1  
(Department of Geography | University of Colombo)
- Oracle SQL by Great Learning

Dharmapala Maha Vidyalaya, Kottawa - G.C.E Advanced Level - Physical Science Stream

## RESEARCH & PUBLICATIONS

- De Silva, D. I., Pabasara, W. A. C., Dilshan, W. A. B., Jayakody, T. N. A., Pathirana, J. K. H., & Gunatilleke, M. B. D. S. (2023). OptiVision: Glaucoma and Eye Diseases Detecting System. *Tujin Jishu/Journal of Propulsion Technology*, 44(5), 590–599. ISSN: 1001-4055 
- Thulawa: Key-Aware Intra-Partition Parallelism extending Kafka Streams - (Optimized the Kafka Framework) - Technologies: Apache Kafka, AI/ML, Java, Kubernetes, Docker, Genetic Algorithm 

## TECHNICAL SKILLS

- **Libraries and Frameworks** - Next.js | NestJS | ReactJS | NodeJS | Laravel | Redux | jQuery | Bootstrap | MUI | Tailwind CSS | Jest | .Net
- **Databases** - MySQL | Firebase | MongoDB
- **Programming** - HTML | JavaScript | Python | PHP | R | Kotlin | SQL | NoSQL | Java | C++ | CSS
- **Version Controlling** - GitHub | GitLab
- **Development Tools** - VS Code | IntelliJ IDEA | Eclipse | Android Studio | Visual Studio | R Studio | Figma | Postman | Swagger
- **Technology Exposure** - CI/CD pipeline | Terraform | Docker | Kubernetes | Google Cloud Platform (GCP) | AWS | Azure DevOps
- **Others** - Apache Kafka, Distributed Systems

## REFERENCES

**Mr. Anushka Bandara,**  
**Assistant Manager IT - IRCSL**  
Phone : (+94) 76 714 4369  
Email : anushka@ircsl.gov.lk

## OTHER PROJECTS

### E-commerce Management System

- This Microservice Project which involves 4 services.
- Designed and developed Using MERN Stack with DevOps and DevSecOps Best Practices.
- This uses Azure Cloud Platform to host the Application and Use Helm deployment for automate kubernetes Deployment.
- This Application has SonarQube testing, CI and CD as its GitHub workflows

**Technologies :** Helm, SonarQube, Docker, DevSecOps, Azure Cloud, MongoDB, React js, Express js, C#

### Eye Care System

- OptiVision enables patients to assess vision, detect glaucoma with AI, and book optician appointments.
- Opticians can review eye scans for cataract detection, provide diagnoses, and issue digital prescriptions.

**Technologies :** MERN Stack, Python, CSS, JavaScript

### Garbage Management System

- In this mobile app, the customer selects the relevant garbage category, then selects the location and enters it into the map.

**Technologies :** Kotlin, Firebase, Google Map

### OSGi Game Arcade

- Online command line Game Arcade made using the OSGi framework for an assignment to understand the framework.

**Technologies :** OSGi framework, Java

**Mr. Priyantha Fernando,**  
**Assistant Director IT - IRCSL**  
Phone : (+94) 78 255 6434  
Email : adit@ircsl.gov.lk