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Batticaloa, Sri Lanka



[Hari Nagalingam](#)



[Harintharan](#)

EDUCATION

UNIVERSITY OF RUHUNA

B.SC. (HONS) IN COMPUTER
ENGINEERING (UNDERGRADUATE)
2021 - PRESENT

CURRENT GPA - 3.47

Shivananda Vidyalaya National School- Batticaloa

G.C.E A/L Completed in 2019 | 3B

CERTIFICATIONS

- [AWS For Beginners](#)
- [Cloud Computing Service Models](#)
- [SpringBoot](#)
- [Blockchain](#)

HARINTHARAN NAGALINGAM

Computer Engineering Undergraduate University Of Ruhuna

ABOUT ME

Dedicated computer engineer specializing in **Express.js**, **React**, and **Spring Boot** for robust web and backend development. Proficient in **AWS** for designing and deploying scalable cloud solutions, with practical experience in **Docker** and **Jenkins** for efficient **DevOps** workflows. Knowledgeable in **blockchain technologies** and **Solidity**, building secure decentralized applications and smart contracts. Passionate about leveraging **AI** principles to enhance application capabilities. Skilled in **Flutter** and cross platform mobile development. Experienced in leading project teams and collaborating effectively, with strong soft skills. Committed to continuous learning and excelling in evolving cloud and technology environments.

CAREER SUMMARY

Industrial Training – Azbow Pvt Ltd | Jul–Dec 2024

- **Bhawana Magazine App**: UI/dashboard features, admin panel, AWS deployment, backend bug fixes, backend development, microservices architecture.
- **LeanSL Live Platform**: Bug fixes, backend works, and frontend feature development.
- **MAP Project**: Entire system implementation from requirements to deployment.
- Used technologies -**Next.js**, **React.js**, **Node.js**, **Express.js**, **Prisma**, **PostgreSQL**, **MongoDB**, **AWS Lightsail**, **AWS S3**, **Docker**, **GitLab (CI/CD)**, **Meta WhatsApp Messaging**, **Firebase FCM**, **Jira**, **Figma**, **Postman**, **JWT**

PROJECTS

Parlour Booking System(Microservices) | 2025 [\(Link\)](#)

- Enables parlour owners to create/manage services and customers to book appointments, with integrated payment and notification flows.
- Utilizes asynchronous messaging via RabbitMQ and is fully deployed on Microsoft Azure for cloud scalability.
- Used technologies -**Spring Boot**, **Docker**, **Spring Cloud Gateway**, **Eureka**, **RabbitMQ**, **Keycloak**, **Stripe**, **Razorpay**, **OpenFeign**, **Google Jib**, **MySQL**, **Azure**

Book Fair System(Microservices) |Group | 2025(Ongoing)

- Contributed to the Exhibition service for managing stall reservations and genres, and led the development of the payment service using Stripe dummy payments for secure reservation transactions..
- Designed and implemented the front-end exhibition hall layout, featuring interactive stall maps and real-time booking status updates for users and organizers.
- Used technologies -**Spring Boot**, **Docker**, **Spring Cloud Gateway**, **Eureka**, **RabbitMQ**, **Keycloak**, **Stripe**, **OpenFeign**, **Google Jib**, **MySQL**, **Azure**

QR-Based Attendance tracking System | Group |2024

- Developing a QR-based attendance tracking system that enables users to scan QR codes by mobile app for attendance. Implemented location verification for enhanced accuracy and reliability.
- **I am doing the mobile app front-end part and half of the back-end part.**
- Used technologies - **Flutter** , **React.js**, **My SQL** and **Spring boot**, **Jira(Agile)**

TECHINICAL SKILLS

- Languages-
Java,Node.js,python,C/ C++,
Dart
- Web development - MERN,
Spring Boot, Post man
- Mobile development -
Flutter, Firebase
- Blockchain - Solidity
- Database - MySQL,
MongoDB,Postgres
- Familiar - C#, javascript
- Tools & IDE - VS Code, Git,
IntelliJ IDEA, Visual Studio,
Jupyter notebook, Google
Colab, Android Studio,
Figma,3ds Max, Matlab, Jira,
Packet tracer,Remix IDE

AFFILIATIONS

- Member - Education Incentive
Association(EIA)
- Member - Shivanandian
Undergraduate
Association(SUGA)

LANGUAGE

- English - Fluent
- Tamil - Native
- Sinhala - Intermediate level

Block Chain Based Defect Identification Sysytem [Group](FYP) 2025

- Led the team in developing a blockchain-enabled cold supply chain system to track shipments securely using sensor data from Raspberry Pi devices.
- Built portals for manufacturers, suppliers, and warehouse owners to monitor, assign, and track supplies through the chain.
- Oversaw system architecture and hosting; contributed to frontend development, backend (Express.js), Sepolia blockchain smart contracts, and IoT sensor integration.
- Used technologies -**Raspberry Pi 4, sensors, React.js, Express.js, Sepolia blockchain testnet, Infura, PostgreSQL, IoT hardware.**

Blood Bank Doner Management System | 2023 [\(Link\)](#)

- Developed a comprehensive blood bank donor management system with **CRUD** and **search** operations for donors and users, optimizing data management and accessibility.
- Used technologies - **React.js, Spring boot,Postman and MySQL**

Event Management System(Mobile application)|Group| 2024

- Facilitated connections between eventers and service providers, enabling eventers to place orders through the application. [\(Link\)](#)
- **I have worked on the front-end and half of the back-end .**
- Used technologies - **Flutter and Firebase.**

Secure Chat Application | 2025 [\(Link\)](#)

- Developed a team chat system with end-to-end encryption, secure authentication, and advanced cryptographic protections.
- Used technologies - **Spring Boot, PostgreSQL, Java Cryptography, HMAC, audit logs**

Medical Advice Chatbot (GenAI) | 2025 [\(Link\)](#)

- Built an AI-powered chatbot delivering accurate, context-aware medical advice.
- Enabled semantic search and natural language understanding, trained on the GALE Encyclopedia of Medicine.
- Used technologies - **LLaMA 2, LangChain, Pinecone, Flask, Python 3.8, Conda**

AI Image Captioning Project | 2024

- Achieved impressive training and testing accuracies of 90.3% and 89.6% respectively for the **Naive Bayes and K-Nearest Neighbors (KNN)** algorithms.
- Used technologies - **Vs code and Google Colab**

Bank loan Acceptance prediction(Machine learning) | 2023

- Developed a deep learning model to generate natural, context-aware captions for images [\(Link\)](#)
- Used technologies - **Python, VGG16, CNN, LSTM, Flickr8k dataset, Deep Learning, NLP**

Project Details

[Clickme](#)

Reference

Dr. Rajitha Udawalpola

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