

# NALAKA SAMPATH

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nalaka-sampath | Portfolio | Medium  
Moratuwa, Sri Lanka



## Summary

I am a passionate and motivated individual dedicated to exploring new technologies in Information Technology. I actively seek opportunities to learn and grow in fast-paced, dynamic environments. With a proactive attitude and a love for challenges, I am committed to delivering high-quality results while continuously developing my skills to excel as a software engineer.

## Work Experience

- Associate Software Engineer — Hasthiya IT (Pvt) LtdJul 2024 - Jan 2025
- Successfully deployed projects to clients with on-time delivery and high quality.
  - Integrated secure payment gateways using Stripe, enabling encrypted and seamless transactions.
  - Mentored junior engineers to improve technical skills and delivery efficiency.
  - Implemented CI/CD with GitHub Actions and AWS to automate build, test, and deployment.
- Trainee Software Engineer — Hasthiya IT (Pvt) LtdJan 2024 - Jul 2024
- Built responsive frontends using React, Next.js, Material UI, Bootstrap, WebRTC, and Redux.
  - Contributed to backends with Node.js, MySQL, Sequelize, and REST APIs; optimized query and API performance.
  - Collaborated in Agile teams with iterative delivery and cross-functional coordination.
  - Debugged and fixed critical issues to improve stability and performance.
  - Worked in a hybrid setup (on-site and remote) ensuring smooth execution and communication.

## Education

University of Moratuwa	Sri Wajirawansa Maha Vidyalaya
Faculty of Information Technology	G.C.E Advanced Level
B.Sc.(Hons) Information Technology and Management	3 A's - District Rank: 21

## Technical Skills

<b>Frontend Development</b> React, Next.js, Bootstrap, MUI, Tailwind CSS, WebRTC, Redux	<b>Backend Development</b> Node.js, Nest.js, Spring Boot, Socket.IO, OAuth 2.0, Sequelize	<b>Programming Languages</b> Java, JavaScript, TypeScript, Python, C
<b>Database Management</b> MySQL, MongoDB, PostgreSQL, Firebase Realtime Database	<b>IDEs</b> IntelliJ IDEA, WebStorm, Android Studio	<b>Cloud Platforms</b> AWS S3, Firebase Authentication, Firebase Cloud Functions, Vercel
<b>Quality Assurance</b> Playwright, Cucumber, JUnit	<b>Project Management</b> Jira, ClickUp, Trello	<b>CI/CD Tools</b> Jenkins, GitHub Actions
<b>ML Tools</b> Weka, Scikit-learn, OpenCV	<b>Payment Gateway</b> Stripe	<b>Version Control</b> Git, GitHub, Bitbucket

## Projects

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- **AI-Enhanced System for Assessing Industry Readiness of Software Engineers with Continuous Learning** Final Year Research Project
  - Technologies: Python, Scikit-learn, Neo4J, DeepFace, FastAPI, Next.js
  - Collaborated in a 3-member research project, contributing to the design and development of a personalized question recommendation system.
  - Designed a hybrid approach combining **collaborative filtering**, **graph-based filtering**, and **reinforcement learning** to generate adaptive recommendations.
- **Chat Vista** — React, Node.js, WebRTC, Socket.io, Bootstrap Individual Project
  - Developed a real-time **video conferencing** platform leveraging **WebRTC**, with client-to-client communication via **STUN/TURN protocols**.
  - Integrated **Socket.io** for real-time messaging and notifications, ensuring seamless collaboration.
- **JCGN** — React, Agora, Stripe, Node, MySQL, Sequelize Hasithiya IT
  - Developed a **live streaming** feature using **Agora.io** and implemented a secure **Stripe payment gateway**.
  - Enhanced backend security with **webhooks** and fraud prevention, and presented product demos to gather client feedback.
- **JCGN Admin Panel** — React, Material UI, Vite Hasithiya IT
  - Used **Material UI** to design and enhance the admin panel's user interface for a seamless and modern user experience.
  - Integrated **CI/CD pipelines** to automate build, testing, and deployment processes, ensuring efficient and reliable application updates.
- **Delta Max** — Node.js, MySQL, Sequelize, Firebase, WooCommerce API Hasithiya IT
  - Developed DeltaMax, a fitness app, and integrated the backend with the client's WordPress website via **WooCommerce API** and **REST APIs**.
  - Used **Sequelize ORM** for database management and enhanced user engagement with **Firebase Push Notifications**.
- **Oi-Jo** — React, Material UI, Stripe Hasithiya IT
  - Developed **Oi-Jo**, a car rental application, to provide a seamless booking experience for users.
  - Integrated a secure **payment gateway** using **Stripe**, ensuring safe and efficient transactions for users.
- **Kid-Casting** — React, Material UI Hasithiya IT
  - Developed Kid-Casting, an online platform where parents can find and apply to acting, modeling, and commercial casting calls for their children.
- **Project Management System** — MERN Stack, Redux, React DnD, AWS S3 Level 02 Software Project
  - Developed a **Kanban board** with **React DnD** and implemented **Redux** state management for efficient task handling.
  - Integrated cloud storage using **AWS S3 buckets** to securely manage project files.

## Extracurricular Activities

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- Member, Mora Lenz – Web Pillar.
- FIT Future Careers 2023 Organizing Committee.
- REALHACK 2023 Coding Competition UOK.
- CODE RUSH 2022 by INTECS UOM.
- Rootcode Tech Triathlon.
- Certificate in Huawei ICT Competition.

## Referees

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- **Dr. Supunmali Ahangama**  
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- **Mr. M. R. G. Sajith Thilanga**  
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