# Randul **Malinhara**

FULL-STACK ENGINEER · JAVA SOFTWARE ENGINEER

*Matara, Sri Lanka*

(+94) 77-880-9931 | bhrmalinhara@gmail.com | Randul-Malinhara | Randul-Malinhara

## Summary

Full-Stack Engineer with 3+ years delivering Java/Spring Boot and Node.js microservices, React front-ends, and fully automated CI/CD pipelines on AWS. Spearheaded a machine-learning tagging API SaaS (Docker, Terraform, CircleCI) that reduced deployment time by 40 percent. Passionate about scalable architectures and end-to-end delivery.

## Work Experience

**Freelancing**                                                                                                     *Sri Lanka*

SOFTWARE ENGINEER (CONTRACT)                                                               *Jun 2024 - Current*

- Managed financial platform infrastructure by deploying microservices to Kubernetes clusters with Helm charts, ensuring scalable and reliable releases.
- Implemented a centralized logging solution using the ELK stack (Elasticsearch, Logstash, Kibana) and Filebeat to aggregate logs from all Kubernetes pods and Node.js services, providing full-stack visibility.
- Established a unified monitoring environment with Prometheus and Grafana, collecting real-time metrics from Kubernetes nodes, Helm-deployed workloads, and host systems to proactively identify performance bottlenecks.
- Developed API microservices in Node.js (Koa) to handle transaction processing and data aggregation, delivering secure, high-performance endpoints that met stringent financial compliance requirements.

**WSO2**                                                                                                      *Colombo, Sri Lanka*

TRAINEE SITE RELIABILITY ENGINEER                                                           *Jul 2022 - Jul 2023*

- Collaborated in defining the architecture, ensuring seamless integration of automated auditing functionalities into the existing monitoring tool.
- Integrated REST APIs and Ballerina Connectors with the frontend, deployed on Choreo, for real-time display of security controls and recommendations
- Established live access to WSO2 Security Benchmarks for Cloud Sheets using Azure Cosmos DB to enable dynamic security control data updates.
- Implemented Gmail OAuth2 authentication and integrated Gmail API for automated notifications.

## Technical Skills

### LANGUAGES & FRAMEWORKS

Bash, Java, JavaScript (Node.js), Python, React, SQL (MySQL), Spring Boot

### TOOLS & PLATFORMS

Ansible, AWS tools(AWS Lambda, AWS ECR, AWS CloudWatch), Azure Cosmos DB, CircleCI, Docker, ELK Stack, Git, Grafana, Gradle, Kubernetes, Linux, Maven, Packer, Rancher, Terraform

## Projects and Presentations

**Self-Optimizing Continuous Integration (CI) Pipelines using an Algorithmic Approach**      *Colombo, Sri Lanka*

FINAL YEAR PROJECT (INDIVIDUAL)                                                            *Dec 2023 - Jul 2024*

- It involves creating mechanisms within the pipeline to analyze its performance, identify areas for improvement, and automatically implement those improvements.
- self-tuning CI/CD pipelines, highlighting techniques and tools that can be used to automate and optimize various stages of the CI/CD process using different algorithmic approaches
- Technologies and tools: Python, Bash, Jenkins, Github Actions, CircleCI, Docker, Terraform

**WSO2, Integration of Automated Security Auditing for Cloud Security Status Monitoring Tool**      *Colombo, Sri Lanka*

INTERNSHIP                                                                                                         *Nov 2022*

- Using WSO2 technologies, Enhanced the tool's functionality by integrating comprehensive security control auditing, improving real-time monitoring and reporting.
- Documented the application architecture and user guide for streamlined future development and user onboarding.
- Technologies and tools: React, Azure Cosmos DB, Javascript, Choreo, Asgardeo, Ballerina

**Eco Nation - SDGP**                                                                              *Colombo, Sri Lanka*

TEAM LEAD (FULL STACK DEVELOPMENT), FINALIST, HCL SCIENIT COMPETITION                               *Nov 2022*

- The data-driven e-waste management system developed to track the daily disposal of mobile phones and laptop electronics.
- Using data mining and data science technologies, efficiently track e-waste bins at various drop-off locations and Complete the platform's data science and elicitation techniques..
- Technologies and tools: Node.js, Express, React, Python (data-mining scripts), MySQL

**MYVaccin (Engineering Competition)**                                                             *Colombo, Sri Lanka*

PRESENTER AND BACKEND DEVELOPER FOR TADHACK-MINI ORLANDO AT AVAYA ENGAGE                            *Jul 2012*

- Created a GA-driven Covid-19 Tracking System
- Technologies and tools: Node.js, Express, MongoDB, Google Analytics 4, Java, SWIFT, HTTPS

# Honors & Awards

## INTERNATIONAL

| | | |
|---|---|---|
| 2022 | **Finalist, Runner up**, TADHack Global Competition 2022 | *Colombo, Sri Lanka* |
| 2022 | **Winner**, IEEE R10 YP CLAP (Career and Leadership Aid Program) | *Kerala, India* |
| 2023/22/21 | **2nd,6th,18th**, IEEEXtreme – 24-Programming Competition | *Colombo, Sri Lanka* |

## DOMESTIC

| | | |
|---|---|---|
| 2022 | **Finalist**, ScienIT Competition 2022 | *Sri Lanka, Colombo* |
| 2022 | **Runner up,Silver Prize**, PitchX | *Sri Lanka, Colombo* |

# Program Committees

| | | |
|---|---|---|
| 2021 | **Chairman**, Coderally 3.0, IEEE Computer Society Student Branch Chapter of IIT | *Sri Lanka* |
| 2022 | **Chief officer & Co-director**, IndustPro 1.0, IEEE Computer Society Student Branch Chapter of IIT | *Sri Lanka* |
| 2021-2022 | **Chairman**, Executive Committee, IEEE Computer Society Student Branch Chapter of IIT | *Sri Lanka* |
| 2022-2023 | **Webmaster**, Public Visibility Subcommittee, SLSAC of IEEE Sri Lanka Section | *Sri Lanka* |
| 2023-2024 | **Marketing Coordinator - Web Lead**, IEEE Young Professionals Sri Lanka of IEEE Sri Lanka Section | *Sri Lanka* |
| 2023-2024 | **Webmaster**, IEEE Computer Society of Sri Lanka Chapter of IEEE Sri Lanka Section | *Sri Lanka* |

# Education

**University of Westminster, UK affiliated with Informatics Institute of Technology**               *Colombo, Sri Lanka*

BENG (HONS) SOFTWARE ENGINEERING                                                                    *Jul 2020 - Sep 2024*

- Bachelor's degree in Software Engineering with Industrial Placement Distinction

**Informatics Institute of Technology**                                                             *Colombo, Sri Lanka*

FOUNDATION CERTIFICATE IN HIGHER EDUCATION                                                          *Jan 2020 - Jul 2020*

- Completed with Distinction | Batch No.6 Average 89.2

**Matara Central College**                                                                          *Matara, Sri Lanka*

G.C.E ORDINARY LEVEL CERTIFICATION                                                                 *2019*

- A6 | B2 | C1

# Extracurricular Activity

**Inter School Model United Nations**                                                               *Matara, Sri Lanka*

LEAD OF SCIENCE/ENGLISH DEBATE TEAM                                                                 *2016-2018*

- 2nd Runner up of Inter School Science and Technology 2018
- Best Delegate of Inter School English Day 2019

**IR Academy, Matara Cricket Club**                                                                 *Matara, Sri Lanka*

CAPTAIN, UNDER 16 CRICKET TEAM                                                                      *2016-2018*

- Best Bowler (16 Wickets) of Six Side Tournament 2017