

RANDUL MALINHARA

FULL-STACK ENGINEER | JAVA SOFTWARE ENGINEER

Matara, Sri Lanka

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Professional Summary

Full-Stack Engineer with 2+ years of experience designing and delivering scalable Java/Spring Boot and Node.js microservices, React front ends, and automated CI/CD pipelines on AWS and Azure. Skilled in cloud security, REST API development, and performance optimization.

Led the development of a machine learning tagging API SaaS using Docker, Terraform, and CircleCI that reduced deployment time by 40%. Strong collaboration and problem-solving skills with proven leadership experience through IEEE roles. Experienced in Agile methodologies, DevOps practices, and Site Reliability Engineering (SRE).

Core Skills

- Languages and Frameworks:** Java; Spring Boot; JavaScript/Node.js; React; Python; SQL (MySQL).
- Cloud and DevOps:** AWS (Lambda, ECR, CloudWatch); Azure Cosmos DB; Docker; Kubernetes; Terraform; Helm; Rancher; Ansible; Packer; Maven; Gradle; Git; GitHub Actions; Jenkins; CircleCI.
- Observability and Security:** Prometheus; Grafana; ELK Stack (Elasticsearch, Logstash, Kibana); Filebeat; Cloud Security; Compliance Automation.
- Practices:** CI/CD (Continuous Integration and Continuous Delivery); Microservices; Agile Methodologies (Scrum, Kanban); Site Reliability Engineering (SRE); Performance Optimization.
- Concepts:** System design, cloud migration, incident management/response, scalability, cost optimization, SLAs/SLOs, stakeholder collaboration
- Soft Skills:** Stakeholder Engagement, Cross-functional Collaboration, Leadership and Mentoring, Problem-Solving and Critical Thinking, Time Management, Communication and Presentation

Experience

Freelancing

SOFTWARE ENGINEER (CONTRACT)

Sri Lanka, USA

Jun 2024 – Present

- Deployed financial platform microservices to Kubernetes clusters with Helm, ensuring scalable and reliable releases.
- Centralized logging with ELK + Filebeat across K8s pods and Node.js services, improving full-stack visibility and troubleshooting.
- Unified monitoring with Prometheus and Grafana for real-time metrics and alerting, enabling faster bottleneck detection.
- Developed secure, high-performance Node.js (Koa) microservices for transaction processing and data aggregation under financial compliance.

WSO2

TRAINEE SITE RELIABILITY ENGINEER (SRE)

Colombo, Sri Lanka

Jul 2022 – Jul 2023

- Collaborated on architecture and integration of automated auditing into an existing monitoring tool.
- Integrated REST APIs and Ballerina Connectors with frontend; deployed on Choreo for real-time security controls and recommendations.
- Established live access to WSO2 Security Benchmarks via Azure Cosmos DB, enabling dynamic updates of security control data.
- Implemented Gmail OAuth2 authentication and Gmail API integration for automated notifications.

Projects and Presentations

Self-Optimizing Continuous Integration (CI) Pipelines using an Algorithmic Approach

Colombo, Sri Lanka

FINAL YEAR PROJECT (INDIVIDUAL)

Dec 2023 – Jul 2024

- Developed self-tuning CI/CD pipelines with algorithmic approaches, enabling automated performance analysis and optimization across build and deployment stages.
- Designed mechanisms to identify bottlenecks and automatically apply improvements to pipeline execution.
- Technologies: Python, Bash, Jenkins, GitHub Actions, CircleCI, Docker, Terraform.

Integration of Automated Security Auditing for Cloud Security Status Monitoring Tool (WSO2)

Colombo, Sri Lanka

INTERNSHIP PROJECT

Nov 2022

- Enhanced a cloud monitoring tool by integrating automated security control auditing for improved real-time monitoring and reporting.
- Documented application architecture and authored a user guide for easier onboarding and future development.
- Technologies: React, Azure Cosmos DB, JavaScript, Choreo, Asgardeo, Ballerina.

Eco Nation - SDGP, HCL ScienIT Competition

TEAM LEAD (FULL-STACK DEVELOPMENT), FINALIST

Colombo, Sri Lanka

Nov 2022

- Led development of a data-driven e-waste management platform tracking mobile and laptop disposals at various locations.
- Applied data mining and data science techniques to identify disposal patterns and optimize bin usage.
- Technologies: Node.js, Express, React, Python (data-mining), MySQL.

MYVaccin (TADHack-Mini Orlando @ Avaya Engage)

Colombo, Sri Lanka

Jul 2021

PRESENTER AND BACKEND DEVELOPER

- Developed a Google Analytics-driven COVID-19 tracking system with real-time monitoring and reporting features.
- Implemented backend services in Node.js and Express with MongoDB for storage and analytics.
- Technologies: Node.js, Express, MongoDB, Google Analytics 4, Java, Swift.

Education

University of Westminster (Affiliated with Informatics Institute of Technology)

Colombo, Sri Lanka

BENG (HONS) SOFTWARE ENGINEERING

Jul 2020 – Oct 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 6, Average 89.2).

Matara Central College

Matara, Sri Lanka

G.C.E. ORDINARY LEVEL CERTIFICATION

2019

- Grades: A6, B2, C1.

Honors & Awards

2022 **Finalist / Runner-up**, TADHack Global Competition

Colombo, Sri Lanka

Kerala, India

2022 **Winner**, IEEE R10 YP CLAP (Career and Leadership Aid Program)

2021–2023 Placements: **2nd (2023), 6th (2022), 18th (2021)**, IEEEExtreme 24-Hour Programming Competition

Colombo, Sri Lanka

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2022 **Finalist**, ScienIT Competition

Colombo, Sri Lanka

Colombo, Sri Lanka

2022 **Runner-up, Silver Prize**, PitchX Competition

Program Committees and Leadership

2021 **Chairman**, Coderally 3.0, IEEE Computer Society Student Branch Chapter of IIT

Sri Lanka

2022 **Chief Officer and 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, IEEE Sri Lanka Section

Sri Lanka

2023–2024 **Webmaster**, IEEE Computer Society Sri Lanka Chapter, IEEE Sri Lanka Section

Sri Lanka

Extracurricular Activities

Inter School Model United Nations

Matara, Sri Lanka

LEAD OF SCIENCE AND ENGLISH DEBATE TEAM

2016–2018

- 2nd Runner-up, Inter School Science and Technology Competition (2018).
- Best Delegate, Inter School English Day (2019).

IR Academy, Matara Cricket Club

Matara, Sri Lanka

CAPTAIN, UNDER 16 CRICKET TEAM

2016–2018

- Best Bowler (16 wickets), Six-a-Side Tournament (2017).