

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).

Experience

Freelancing

Sri Lanka

SOFTWARE ENGINEER (CONTRACT)

2024-06 – Present

- Deployed financial platform microservices to Kubernetes clusters with Helm, ensuring scalable and reliable releases.
- Implemented centralized logging with ELK Stack (Elasticsearch, Logstash, Kibana) and Filebeat, aggregating logs from all Kubernetes pods and Node.js services for full-stack visibility.
- Built unified monitoring with Prometheus and Grafana, collecting real-time metrics across Kubernetes nodes and workloads to identify performance bottlenecks.
- Developed secure, high-performance Node.js (Koa) microservices for transaction processing and data aggregation under financial compliance.

WSO2

Colombo, Sri Lanka

TRAINEE SITE RELIABILITY ENGINEER

2022-07 – 2023-07

- 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.

Technical 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.

Projects and Presentations

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

Colombo, Sri Lanka

FINAL YEAR PROJECT (INDIVIDUAL)

2023-12 – 2024-07

- 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

2022-11

- 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

Colombo, Sri Lanka

TEAM LEAD (FULL-STACK DEVELOPMENT), FINALIST

2022-11

- 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

PRESENTER AND BACKEND DEVELOPER

2021-07

- 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.

Honors & Awards

2022	Finalist / Runner-up , TADHack Global Competition	Colombo, Sri Lanka
2022	Winner , IEEE R10 YP CLAP (Career and Leadership Aid Program)	Kerala, India
2021–2023	Placements: 2nd (2023), 6th (2022), 18th (2021) , IEEEExtreme 24-Hour Programming Competition	Colombo, Sri Lanka
2022	Finalist , ScienIT Competition	Colombo, Sri Lanka
2022	Runner-up, Silver Prize , PitchX Competition	Colombo, Sri Lanka

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

Education

University of Westminster (Affiliated with Informatics Institute of Technology)	Colombo, Sri Lanka
BENG (HONS) SOFTWARE ENGINEERING	2020-07 – 2024-09
• Bachelor's degree in Software Engineering with Industrial Placement Distinction.	
Informatics Institute of Technology	Colombo, Sri Lanka
FOUNDATION CERTIFICATE IN HIGHER EDUCATION	2020-01 – 2020-07
• 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.	

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).	