RASAN DILIKSHANA

Software Engineer (Platform & Cloud-Native)

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🔗 Website in LinkedIn ○ GitHub

PROFESSIONAL SUMMARY

Platform-focused Software Engineer with nearly 3 years of experience in full-stack development and cloud-native platform engineering. Proven expertise in Go, Laravel, React, Docker, and Kubernetes. Currently a core contributor to the Lyceum HaaS (Hub as a Service), a large-scale, distributed Global Hybrid Multi-Cloud Application (GHMA). Specializing in implementing foundational cloud platforms (K8s, Keycloak, n8n) and architecting its next-generation, event-driven core, including API Management, Message-Oriented Middleware (MOM) with Apache Kafka, and Temporal-based workflows. Recent BICT (Hons) graduate from the University of Colombo, combining strong academic fundamentals with practical industry experience.

PROFESSIONAL EXPERIENCE

Software Engineer, *Zuse Technologies*   08/2025 – Present
                                                                             Nugegoda, Sri Lanka
- Key architect and developer for the Lyceum HaaS (Hub as a Service) platform, a distributed, multi-cloud integration hub designed to unify 40+ federated enterprises.
- Successfully implemented and now manage the foundational platform services: Kubernetes (K8s), Keycloak (IAM), a full CI/CD pipeline (Argo CD, SonarQube), an observability stack (Prometheus, Grafana), and initial n8n workflow automations and AI Chatbots.
- Currently leading the implementation and research of the Open Policy Agent (OPA) framework for fine-grained, enterprise-wide authorization.
- Actively architecting and researching the next-generation components of the platform, including a Temporal-based workflow engine, an Apache Kafka messaging backbone, a HashiCorp Vault secrets-management system, and a Dapr service runtime.
- Delivered the platform's first major products: a custom VPN solution (Netbird) and a Go-based multi-cloud backup system.

Associate Software Engineer, *Zuse Technologies*   01/2024 – 08/2025
                                                                             Nugegoda, Sri Lanka
- Collaborated to develop a Multi-Cloud Backup Solution for Lyceum Global Holdings using a microservices architecture (Go).
- Developed the frontend in Next.js with secure Keycloak-IAM authentication and authorization.
- Built the Zuse Careers Portal, reducing recruitment third-party payments by 50% through automated workflows using Laravel, SEO Schema Markup, and AWS S3.
- Delivered 6 major web applications with a 99% on-time development rate, including NCG Warehouse Solutions.
- Developed a Student Information System API for a Flutter Mobile Application using the Laravel framework.
- Integrated Bitrix2 API with the NCG Green Energy website, automating 85% of manual data entry.
- Improved search rankings by 50%-80% for multiple company websites through targeted SEO optimization.

- Gained hands-on experience with end-to-end CI/CD pipelines using Github, Docker, AWS, Ansible, and Terraform.

Software Engineer Intern, *Zuse Technologies*   07/2023 – 01/2024
                                                                        Nugegoda, Sri Lanka
- ERP Data Management System to manage more than 12 000 products and services, that reduced data processing time by 60% and eliminated manual errors
- Increased organic traffic and performance by 80% for Bookstudio.lk (WordPress) and Zuse.lk (React.JS) through technical SEO improvements and site optimization

Trainee Web Developer,   01/2023 – 06/2023
Centre for Defence Research & Development, Ministry of Defence   Homagama, Sri Lanka
- Migrant Workers Safety Assurance System using ASP.NET, SQL Server
- Hosted Application on Windows Server

Temporary Teller/Cashier, *People's Bank Sri Lanka*   02/2019 – 01/2020
- Managed cashier operations, data entry, and customer service responsibilities   Hakmana, Sri Lanka

EDUCATION

Bachelor of Information and Communication Technology (BICT) (Hons),   04/04/2025
University of Colombo   Faculty of Technology
Class: Second Class Honours (Lower Division) | GPA: 3.27

TECHNICAL SKILLS

Programming Languages
ASP.NET, PHP (Laravel), JavaScript (React, Next.js), WordPress, Go (beginner), C# (Unity)

Development Practices
Agile Methodologies, SDLC, Scrum, Sprint, Problem Solving, Open Source Contribution, Team Collaboration

Cloud & Platform Engineering
Kubernetes, Docker, Temporal, Apache Kafka, Dapr, HashiCorp Vault, Open Policy Agent (OPA), Service Mesh (Istio/Linkerd), AWS (EC2, S3), CI/CD, Ansible, Terraform, CNCF

Observability & Monitoring
Prometheus, Grafana

SEO Tools
Google Analytics, Google Search Console, Bing Webmaster Tool, Google Business Profile, Meta, Screaming Frog

Databases & Data
PostgreSQL, MongoDB, Redis, Supabase, Qdrant

LEADERSHIP EXPERIENCE

Alumni Association, Faculty of Technology, University of Colombo, *Treasurer*   10/2025 – Present

Welfare Society, Faculty of Technology, University of Colombo, *President*   01/2023 – 04/2024

Mahinda Rajapaksha Collage, Matara, *Western Band Leader*   12/2016 – 02/2018

MR/Puhulwella National College, Kirinda, *Senior Corporal*   2013 – 2015

RESEARCH PROJECT

Augmented Reality Indoor Navigation System, *Final Year Research Project*
Developed a Unity-based indoor navigation system achieving 92% accuracy in position tracking
- Implemented augmented reality features for enhanced user experience
- 30 places indoor positioning
- Collaborated with 3 team members to implement solution