

NALEENA KUMARASINGHE

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Performance-driven Full-Stack Engineer and DevOps Practitioner with over 3 years of experience in building scalable web applications and automating cloud-native delivery pipelines. Expert in bridging the gap between high-performance frontend architecture and robust, secure infrastructure. Proven track record in implementing **CI/CD automation**, **containerization**, and **Infrastructure as Code (IaC)** to streamline development lifecycles. Specialized in **Zero-Trust security** and **Cloud-Native principles**, with a strong focus on building resilient, observable, and highly available digital platforms in multi-cloud environments (AWS/Azure).

- Full-Stack Web Development
- Containerization
- Next.js & Tailwind CSS
- DevOps & CI/CD Pipelines
- Cloud-Native Architecture
- System Reliability
- Zero-Trust Security Concepts
- Platform Engineering
- Automation

EDUCATION

NSBM Green University (Homagama, Sri Lanka) 2023 – Present

BSc (Honours) in Computer Networks – UGC

Kingswood College (Kandy, Sri Lanka) 2007 – 2021

Advanced Level – Business Studies, Accounting and ICT

CERTIFICATIONS

WSO2 (2026) - Linux Systems Administration and DevOps Engineering

KodeKloud (2026) - Microsoft Azure Fundamentals

CISCO (2025) - IT Essentials

PROJECTS

IGNIGHT MOTORS | CLOUD-NATIVE WEB APPLICATION

Personal Project – 2026

A high-performance automotive business website modernized through a containerized architecture and a fully automated CI/CD pipeline. By architecting multi-stage Docker environments, I reduced image sizes by 60% while using GitHub Actions to automate the entire linting, testing, and deployment workflow. The project leverages Next.js SSR and Tailwind CSS for optimized Core Web Vitals, integrated with industry-standard DevSecOps practices for secure secret and environment variable management.

- **Technologies:** Next.js, Tailwind CSS, Docker, GitHub Actions, CI/CD, Linux (Ubuntu), Node.js.

AZURE KUBERNETES INFRASTRUCTURE | CLOUD ARCHITECTURE

Personal Project – 2026

A scalable, DRY Infrastructure as Code implementation using Terraform to provision a complete Azure Kubernetes Service (AKS) ecosystem. By architecting a hierarchical repository with YAML inheritance and yamldoc mapping, I automated the deployment of state networking and storage resources while eliminating code duplication. This setup leverages Azure Storage for dynamic state management, ensuring standardized, error-free configurations across multi-layer environments.

- **Technologies:** Terraform, Terragrunt, AKS, Azure, IaC, Virtual Networks, HCL, YAML.

WAREHOUSE MANAGEMENT SYSTEM

DEA Group Project –2025

As the project lead for this university initiative, I developed a centralized logistics administration platform designed to digitize inventory tracking and streamline supply chain visibility. By implementing a comprehensive inventory control module using MVC architecture, I enabled real-time monitoring of product lifecycles and Advanced Shipping Notices (ASN) across multiple locations. The system features a robust order processing engine for automated shipment tracking and a responsive Bootstrap 5 interface, significantly reducing fulfillment errors and manual data entry for warehouse operations.

- **Technologies:** Java (J2EE, Servlets, JSP), MySQL, Bootstrap 5, JDBC, MVC Architecture.

MY CLINIC | Medical Clinics POS Solutions

Freelance Group Project – 2024

A comprehensive healthcare administration platform designed to digitize patient records and optimize pharmaceutical inventory tracking. I led the UI/UX design in Figma and developed a responsive React frontend with Tailwind CSS, focusing on accessible workflows for medical staff. The system features a robust inventory module with real-time data visualization via Recharts to monitor drug stock and expiries, alongside a secure JWT-based role authentication system to ensure strict patient data privacy and operational integrity.

- **Technologies:** React, Node.js, Express, MySQL, Tailwind CSS, Recharts, JWT, Figma.

TECHNICAL SKILLS

Languages & Web: JavaScript, TypeScript, Java, HTML5, CSS3, C

Frontend & Design: Next.js, React.js, Tailwind CSS, GSAP, Framer Motion, Figma

Backend & Database: Node.js, Java Servlet, MySQL, PostgreSQL, MongoDB

Cloud Platforms: AWS, Microsoft Azure

DevOps & Infrastructure: Docker, Kubernetes, Terraform, Terragrunt, Pulumi, Ansible

Platform & Security: Zero Trust Architecture, OpenSearch

Systems & Automation: Linux Administration, CI/CD (GitHub Actions), Git, Bash

SOFT SKILLS

Communication | teamwork | Problem solving | Adaptability

REFERENCE

Dr. Pabudi Abeyrathne

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