

NALEENA KUMARASINGHE

Software Engineer | Full Stack Developer

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PROFESSIONAL SUMMARY

Analytical Software Engineer and Computer Networks undergraduate at NSBM Green University. Experienced in building responsive web applications using the PERN stack (PostgreSQL, Express.js, React, Node.js) through independent freelance projects. Driven by a minimalist optimizer's mindset, bridging the gap between terminal-driven efficiency (Linux/CLI) and exceptional, user-centric frontend design. A collaborative yet independent problem-solver seeking a Full Stack Developer role to contribute to scalable backend architecture and intuitive user experiences.

WORK EXPERIENCE

Trainee - Bank of Ceylon (Regional Loan Center - Kandy) April 2023 - October 2023

- Evaluated and verified over 30+ complex loan document sets, ensuring 100% compliance with strict banking regulations and credit frameworks.
- Streamlined regional administrative workflows, reducing data entry backlogs to cut application turnaround times by 3+ days and accelerate the credit approval lifecycle.
- Maintained internal digital databases with a 99% accuracy rating while collaborating across 3 departments to eliminate application processing bottlenecks.

TECHNICAL SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, Java, C

Frontend Development: React.js, Next.js, Tailwind CSS, CSS3, GSAP, Framer Motion

Backend Development: Node.js, Express.js, Nest.js

Database & Cloud: PostgreSQL, MySQL, MongoDB, AWS

DevOps & Tools: Git, Docker, CI/CD, Linux (Ubuntu), Bash Scripting, Postman, Figma

Soft Skills: Teamwork, Problem-solving, Adaptability, Client Interaction, Collaboration, Communication

PROJECTS

Project Management Platform

2026

Project and team task management platform featuring a Kanban board and robust role management.

- Implemented a secure Enterprise Role-Based Access Control system with stateless JWT authentication, optimizing multi-tenant user isolation across Postgres database nodes.
- Architected automated container-less validation workflows by building a CI/CD pipeline using GitHub Actions for production-grade TypeScript and Prisma schema evaluation.

Technologies: Next.js, Express.js, TypeScript, PostgreSQL, Prisma ORM, Tailwind CSS, GitHub Actions, Git

System Health Monitor - Automation & Monitoring

2026

An automated system monitoring utility created to maintain server reliability through real-time resource tracking and instant incident notification.

- Built a specialized Bash script merged with Cron for scheduled execution to proactively monitor CPU, memory, and disk utilization against defined thresholds.
- Configured a lightweight, zero-dependency Discord Webhook integration for remote alerting and immediate visibility into performance issues.

Technologies: Bash Scripting, Linux (Ubuntu), Cron Jobs, Discord Webhooks

Booking Platform REST API

2026

A service management and scheduling backend built with a modular architecture.

- Engineered a secure NestJS/TypeScript REST API with PostgreSQL, enforcing JWT auth, past-date validation, duplicate booking prevention, Swagger UI documentation, and multi-stage Docker support.

Technologies: NestJS, TypeScript, PostgreSQL, TypeORM, JWT, Docker, Swagger UI, Git.

Warehouse Management System - DEA Group Project

2025

A centralized logistics administration platform enabling real-time inventory tracking.

- Optimized a comprehensive inventory control module using MVC architecture for real-time tracking of product lifecycles and Advanced Shipping Notices (ASN).
- Led the team to build a configurable order processing engine for shipment tracking, utilizing an adaptive Bootstrap 5 interface.

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

MyClinic - Medical POS & Administration Platform - Freelance Project

2024

A comprehensive healthcare administration and inventory platform designed to digitize patient records and streamline daily medical workflows.

- Developed interactive user flows in Figma and built a cross-device React and Tailwind CSS frontend to modernize patient tracking.
- Integrated a secure stock tracking module with Recharts data visualization and implemented role-based access control using JWT.

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

EDUCATION

NSBM Green University, Homagama

2023 - present

BSc (Honours) in Computer Networks - UGC

Kingswood College, Kandy

2007 - 2021

Business Studies, Accounting, and ICT

CERTIFICATIONS

KodeKloud - Microsoft Azure Fundamentals (2026)

WSO2 - Linux Systems Administration and DevOps Engineering Training Program (2025)

CISCO - IT Essentials (2025)