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📍 Sri Lanka (Open to Relocation/Remote)

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EXECUTIVE SUMMARY

Software Engineer and Computer Science graduate from the University of Ruhuna with proven expertise building scalable, enterprise-grade web applications and distributed backends. Shipped production systems recognized nationally, including winning the **Silver Award at BestWeb.lk 2026** for *Ehelepolawalawwa.lk*. Demonstrates strong software craftsmanship in **Java (Spring Boot)**, **TypeScript (NestJS, Node.js)**, and modern **React/Next.js** with robust Clean Architecture, relational database modeling (PostgreSQL, MySQL), Redis caching, Docker containerization, and AWS CI/CD pipelines.

TECHNICAL EXPERTISE

Languages	Java (Core & Enterprise), TypeScript, JavaScript (ES6+), SQL, C#, PHP, HTML5/CSS3
Backend & APIs	Spring Boot, NestJS, Node.js, Express.js, ASP.NET Core, TypeORM, Prisma, JPA/Hibernate, RESTful APIs
Frontend	React.js, Next.js 14+ (App Router), Tailwind CSS, Vite, Redux Toolkit, WebSockets, HTML5 Semantic Design
Databases & Cache	PostgreSQL, MySQL, MongoDB, Redis (Session & Caching), Database Normalization & Indexing
DevOps & Cloud	Docker, Docker Compose, AWS (EC2, S3), Jenkins CI/CD Automation, Git, GitHub Actions, Linux
Architecture & Security	Clean Architecture, Microservices, JWT Auth (HTTP-only Cookies), Zod Validation, Role-Based Access (RBAC)

PROFESSIONAL EXPERIENCE

Software Engineering Intern · All in One Holdings March 2026 – Sept 2026 | Kandy, Sri Lanka
Full-stack web engineering, distributed architecture design, and production system delivery

- Award-Winning Web Engineering:** Developed the official *Ehelepolawalawwa.lk* platform for Sri Dalada Maligawa, winning the **Silver Award at BestWeb.lk 2026**; built high-performance React/Node.js architecture with WebP asset compression and sub-second loading.
- Commercial Web Platform Development:** Engineered *Mahinda Panagoda Funeral Service* portal, implementing Stripe checkout workflows, automated dual-dispatch Nodemailer email notifications, and normalized MySQL schemas.
- Enterprise E-Commerce Architecture:** Built *Presenting Development* using NestJS, Next.js, Prisma ORM, PayHere payment integration, and Dockerized PostgreSQL with Redis caching for sub-100ms response times.
- Full-Stack Technical Challenges:** Engineered *Xplore* (curated travel platform with security-first HTTP-only cookie JWTs and Gzip compression) and *Personal Task & Time Tracker* (strict typed NestJS 11 + TypeORM + React 19 with millisecond timer accuracy).
- Production Web Redesigns:** Delivered modernized, high-performance responsive web portals for *Go Ahead Lanka* (travel & logistics) and *Ridee Boutique Hotel*.
- Engineering Best Practices:** Enforced strict TypeScript typings, modular dependency injection, zero-trust schema validation via Zod, and automated test coverage across all shipped repositories.

KEY ENGINEERING PROJECTS

Rashmi Tyre Streamline Solution (MOSAD) FINAL-YEAR FLAGSHIP CAPSTONE

2024 – 2025

Tech: Java Spring Boot, React, PostgreSQL, Docker, AWS (EC2/S3), Jenkins, Meta Prophet AI, OpenAI

- Architected enterprise tire-shop management suite supporting inventory control, automated POS billing, and predictive supply replenishment.
- Integrated Meta Prophet ML models achieving >85% demand forecasting accuracy and automated WhatsApp Cloud API alert webhooks.
- Built automated CI/CD pipeline using Jenkins to containerize builds in Docker and orchestrate rolling deployments to AWS EC2.

BloodConnect – Donor Matching Platform FINAL-YEAR INDIVIDUAL PROJECT

2024 – 2025

Tech: MongoDB, Express.js, React.js, Node.js, JWT, Figma, Vercel

- Designed a life-saving healthcare network connecting blood donors, recipients, and blood banks across 5 specialized role-based portals.
- Engineered automated ABO & Rh compatibility matching algorithms and MongoDB geospatial queries for emergency broadcast alerts.
- Deployed full-stack application live on Vercel with comprehensive Figma UI/UX prototyping.

Zopify – Multi-App E-Commerce Platform

2025 – 2026

Tech: Next.js (SSR Storefront), React (Admin Dashboard), NestJS, PostgreSQL, Redis, Docker, WebSocket

- Built multi-application e-commerce architecture separating high-traffic consumer storefront from real-time admin control dashboard.
- Implemented WebSocket gateway in NestJS for live order sync and Redis caching to handle concurrent checkout traffic.

BUS_Book-Ur-Seat & SafePath Observers

2023 – 2024

Tech: React, Vite, Node.js, Express, MongoDB (Bus Booking) / PHP, MySQL, Bootstrap, FPDF (SafePath)

- **BUS_Book-Ur-Seat:** Built bus seat reservation platform with role-based auth, seat locking, and automated booking confirmations.
- **SafePath Observers:** Led student developer team to digitize driving school operations with 3NF MySQL schemas and dynamic PDF generation.

WildNet – Interactive Conservation Platform

2023

Tech: Vanilla Java, JavaFX, FXML, MySQL, Multi-Threading

- Constructed desktop biodiversity platform adhering to strict MVC patterns, asynchronous Java Workers, and custom CSS scene graphs.

EDUCATION

Bachelor of Computer Science (BCS) · University of Ruhuna

2022 – 2025 | Matara, Sri Lanka

Comprehensive curriculum in Software Engineering, Distributed Systems, and Advanced Computing

- **Key Coursework:** Data Structures & Algorithms, Object-Oriented Software Design, Database Systems, Computer Networks, Operating Systems, Artificial Intelligence, Web Application Development, Agile Project Management.
- **Capstone Distinction:** Awarded top evaluation in Computer Science Department for flagship enterprise capstone (MOSAD).

HONORS & CERTIFICATIONS

- **Silver Award Winner:** BestWeb.lk National Web Competition 2026 for *Ehelepolawalawwa.lk* (Sri Dalada Maligawa).
- **Academic Excellence Award:** Top evaluation for Enterprise Architecture & Cloud DevOps (MOSAD Project - University of Ruhuna).
- **Full-Stack Professional Development:** Completed advanced specializations in Spring Boot Enterprise Architecture, NestJS Scalable Systems, and React 19 Modern Patterns.
- **Open-Source Contributor:** Active technical documentation and repository authoring on GitHub (github.com/TharakaGamage830).