



M.V. THINUN THARUSHIKA

ASSOCIATE SOFTWARE ENGINEER • FRONTEND & FULL-STACK DEVELOPER

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PROFESSIONAL SUMMARY

Results-driven Frontend Software Engineer with over 2 years of experience architecting and shipping scalable, high-performance web and mobile applications. Specialized in the React ecosystem (React.js, Next.js App Router, React Native Expo) and TypeScript, with a proven track record of optimizing build pipelines, establishing modular UI architectures with Shadcn/ui, and delivering localized web platforms for 40+ languages. Experienced in full-stack integration with Node.js, Express, Laravel, MySQL, MongoDB, Cloudflare, and New Relic.

TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), TypeScript, HTML5, CSS3, PHP, Java, SQL
- **Frontend & Mobile:** React.js, Next.js (App Router 14/15/16), React Native (Expo), Vue.js, Tailwind CSS, NativeWind, SCSS, Styled Components, Shadcn/ui, Material-UI, Tamagui, Gluestack
- **State & UI Tooling:** Redux Toolkit, Zustand, React Context API, React Hook Form, React Native Reanimated
- **Backend & Databases:** Node.js, Express.js, Laravel, RESTful API Design & Integration, JWT Authentication, MongoDB (Mongoose), MySQL
- **DevOps, Cloud & Monitoring:** Cloudflare (DNS, CDN & Caching Rules), New Relic (APM & Frontend Browser Monitoring), Vercel, Netlify, Firebase, Git, GitHub, GitLab, Vite, Webpack, Turbopack, IndexedDB

WORK EXPERIENCE

Rightmo Web Solutions

Frontend Software Engineer (Associate)

Jan 2025 – Present

Galle, Sri Lanka

- **Frontend Migration & Component Architecture:** Key contributor to the migration of the core QR Generator platform from legacy PHP to Next.js 16 (App Router), engineering modular, type-safe UI components with TypeScript, React Hook Form, Zustand, and Shadcn/ui integrated with Laravel REST APIs.
- **Build Pipeline Optimization:** Engineered an automated dependency analysis workflow using dependency-cruiser and route-specific Tailwind CSS source detection, isolating CSS generation and significantly reducing production chunk sizes.
- **Multi-Locale Build & CSS Pipeline:** Engineered a standalone prebuild Node pipeline that parses @lang-routes annotations and :lang() selectors to compile and route-merge localized CSS for 44+ languages, cutting bundle overhead and serving single-request stylesheets per locale with deterministic NEXT_DEPLOYMENT_ID cache-busting across horizontally scaled Docker clusters.
- **Browser History & Navigation Recovery Engine:** Designed and implemented a resilient funnel redirection and step-recovery module syncing URL query params, Zustand store state, and browser history stacks to eliminate back-button drops and recover.
- **Cross-Platform Mobile Engineering:** Independently developed, optimized, and published the MCHS School Management mobile app using React Native Expo, TypeScript, NativeWind, and Reanimated; implemented JWT auth, push notifications, and global state for 3,500+ active users.

- **Multi-Business SaaS Platform:** Built a multi-tenant business management portal with full internationalization (i18n) support using Next.js 14 (App Router), TypeScript, Shadcn/ui, and Tailwind CSS.
- **Enterprise & Institutional Portals:** Contributed to the development and responsive UI design of major client web platforms, including Southern Sri Lanka Ruhunu Tourist Bureau (Laravel) and Thomas Gall International School (Next.js).
- **Agile Best Practices:** Actively collaborated in sprint planning, code reviews, and pair programming sessions, ensuring strict code quality, accessibility, and high UI performance metrics.

KEY PROJECTS & SYSTEMS

PDF Editor & Processing Suite *Next.js, Zustand, IndexedDB*
helaforge.com

- Engineered client-side state persistence and memory management by coupling IndexedDB alongside Zustand, safely handling large binary PDF documents without hitting browser storage limits or blocking the main UI thread.

Electronic Health Record (EHR) Clinic Management SaaS *Next.js, Express.js, MySQL*
clinic-ehr-olive.vercel.app

- Developed a comprehensive SaaS platform featuring electronic medical records, automated patient appointment scheduling, and role-based access control (RBAC) with optimized MySQL relational querying

RAT Events Platform *PHP, MySQL, JavaScript, HTML5/CSS3*
ratevents.org

- Delivered an end-to-end event management portal for national robotics competitions, handling team registrations, dynamic tournament brackets, and live schedule dissemination.

Indoor Supermarket Navigation System (Research Project) *Java, Android Studio, Wi-Fi Triangulation*

- Researched and implemented indoor Wi-Fi sensing and triangulation algorithms for user positioning in retail environments, optimizing route pathfinding to decrease simulated navigation time by 30%.

Hela Digitals Agency Platform *Next.js, Tailwind CSS*
heladigitals.com

- Designed and developed a modern digital agency platform showcasing service offerings, tiered pricing packages, and responsive conversion funnels for lead acquisition.

EDUCATION, CERTIFICATIONS & REFERENCES

Bachelor of Science (BSc) in Applied Sciences
[Rajarata University of Sri Lanka](https://www.rajarata.ac.lk)
Major: Computer Science & Physics | Graduated: March 2023

G.C.E. Advanced Level (Physical Science)
[St. Aloysius' College, Galle](https://www.stalloysius.lk)
Completed: 2017

Certifications

- JavaScript Algorithms & Data Structures – freeCodeCamp (2024)
- Responsive Web Design Certification – freeCodeCamp (2024)

Languages

- English: Professional Working Proficiency
- Sinhala: Native

Professional References
Mr. M.V.T. Udaranga
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