

# Chathura Madhusanka Silva

Full Stack Software Engineer · React · Node.js · Next.js · TypeScript · MERN

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## PROFESSIONAL SUMMARY

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Full Stack Software Engineer with 2+ years of professional experience building and shipping production JavaScript applications. Specialising in the React/Next.js frontend and Node.js/Express backend ecosystem, with hands-on experience across MongoDB, PostgreSQL, TypeScript, and cloud deployment. Currently delivering multiple product modules at Synergy Information Systems with full ownership from requirements through deployment. Known for writing clean, maintainable code, thinking in systems, and taking features from zero to production. Looking for a Full Stack or Frontend-heavy engineering role where JavaScript depth and a product ownership mindset can drive real impact.

## TECHNICAL SKILLS

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**Frontend:** React.js, Next.js, TypeScript, JavaScript (ES6+), Tailwind CSS, Zustand, Redux, React Router, Axios, Material-UI, Ant Design, Framer Motion, Bootstrap 5, HTML5, CSS3

**Backend:** Node.js, Express.js, RESTful APIs, Socket.IO, JWT Authentication, Microservices

**Databases:** MongoDB, PostgreSQL, MySQL, Firebase, Mongoose

**DevOps & Infra:** Nginx, PM2, VPS (Ubuntu), Docker, Git, GitHub Actions (CI/CD)

**Tools:** Vite, Postman, VS Code, Clickup

## PROFESSIONAL EXPERIENCE

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### Software Engineer, Synergy Information Systems

*December 2023 – Present*

- Contribute to SIPMon, a live network monitoring SaaS platform, working across multiple product modules from planning through deployment and post-release support, with end-to-end ownership of assigned features
- Design and implement full-stack features: React.js + TypeScript frontends, Node.js/Express REST APIs, business logic layers, JWT authentication flows, and MongoDB/PostgreSQL database operations
- Architected and shipped the SIPMon Support Portal ([support.synergysis.com](https://support.synergysis.com)), an enterprise ticketing system handling 50+ daily tickets with automated SLA escalation chains (Engineer → Architect → CTO → CEO), real-time Socket.IO live chat, multi-tenant RBAC for 6 roles, and automated PDF report generation via PDFKit
- Developed modular network monitoring features with real-time data processing, performant React components, and scalable RESTful APIs aligned with product design standards
- Translate module-level requirements into technical specifications, architecting solutions using design patterns (Factory, Observer, Singleton) and SOLID principles
- Manage database schemas, write optimised queries, and maintain module-specific data models across SQL and NoSQL stores
- Participate in full Agile cycles including sprint planning, peer code reviews, stakeholder updates, and continuous delivery with maintained documentation

### Intern Full Stack Developer, BiHelix Innovations

*January 2023 – November 2023*

- Built React.js frontend components with CSS3/Bootstrap 5 for 2 client web applications, delivering responsive interfaces from Figma designs
- Developed RESTful APIs using Node.js and Express.js for user authentication, registration, and profile management; integrated MongoDB for data persistence
- Implemented form validation, error handling, and collaborated using Git-based workflows in a team of 4 developers

## EDUCATION

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### BSc (Hons) Information Technology, Software Engineering Specialization

*2020 – 2024*

Sri Lanka Institute of Information Technology (SLIIT)

## KEY PROJECTS

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**EduPro LMS** · *Next.js* · *Node.js* · *MongoDB* · *TypeScript* · *Tailwind CSS* · *Nginx* · *CI/CD*

[eduproacademy.lk](https://eduproacademy.lk) 2025 - 2026

- Independently architected, built, and deployed a full-featured Learning Management System, live at [eduproacademy.lk](https://eduproacademy.lk) and serving 500+ active users across courses, quizzes, and video lessons
- Engineered 100+ REST API endpoints across 14 route modules, 13 MongoDB data models, and 65+ Next.js pages with full TypeScript coverage. Zero critical production incidents since launch
- Built 4-role access system (Owner, Admin, Teacher, Student) with JWT auth, OTP email verification, and account security lockout; secure video player with progress tracking and Cloudinary storage
- Deployed on Hostinger VPS with GitHub Actions CI/CD, PM2 process management, Nginx reverse proxy, Let's Encrypt SSL, and automated Cloudflare R2 database backups

**TSP Window Tint, Business Portfolio** · *React.js* · *JavaScript* · *Tailwind CSS*

[tspwindowtint.com](https://tspwindowtint.com) 2026

- Designed and developed a live production business portfolio for a window tinting company.
- Built a responsive, performance-optimised React.js frontend with service showcasing, modern UI/UX, and contact integration

**SIPMon Support Portal** · *React.js* · *Node.js* · *MongoDB* · *Socket.IO* · *TypeScript* · *Tailwind CSS*

[support.synergysis.com](https://support.synergysis.com) 2025 - 2026

- Enterprise-grade internal ticketing system built at Synergy, live in production and processing real support workflows across multiple client companies
- Automated SLA tracking with time-based escalation chains (P1: 60-min, P2: 180-min) triggering email alerts up to CTO/CEO on breach; full audit trail with timestamps and resolution notes
- Real-time Socket.IO live chat per ticket with typing indicators, presence detection, and 10MB file attachment support; RBAC across 6 roles with multi-tenant company-level data isolation

**HR Management System** · *MERN Stack* · *JWT* · *Material-UI* [Github](#) 2024

- Full MERN stack platform with JWT authentication, role-based access control, payroll processing, and employee records management.

**ArchiveHub, Scholar Profile Platform** · *React.js* · *Node.js* · *AWS Lambda* · *Python* [Github](#) 2024

- AI-powered academic recommendation system for conference/journal prediction using NLP/ML; serverless AWS Lambda architecture with automated web scraping. Published in IRJIET, October 2023

**Research Project Management Platform** · *React.js* · *Node.js* · *MongoDB* · *Socket.IO* [Github](#) 2023

- Collaborative academic platform with real-time Socket.IO updates, document sharing, milestone tracking, and role-based access for supervisors and students

## PUBLICATIONS

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- "[ARCHIVEHUB: Web-based Dashboard to Maintain and Rate Researchers' Profiles](#)", IRJIET, October 2023
- "[Human Resource Management System](#)", IJEMR Vandana Publications, 2023

## ADDITIONAL

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**Languages:** Sinhala (Native) · English (Technical Documentation, Code Reviews, Client Communication)

## REFERENCES

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**Mr. Kumarasiri R.D.S.R.** · Senior Software Engineer, One Billion Tech | +94776135690 | [sahankumarasiri@1billiontech.com](mailto:sahankumarasiri@1billiontech.com)

**Mr. W.D.J. Sheron** · Senior Software Engineer, Synergy Information Systems | +94770209128 | [sheron@synergysis.com](mailto:sheron@synergysis.com)