

# Deshan Dharmasena

Associate Tech Lead | Full-Stack Development | AI Integration

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## PROFILE SUMMARY

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Associate Tech Lead with 8+ years of experience in full-stack development, cloud computing (AWS, Azure), and agile delivery. Skilled in building scalable web and mobile apps using Laravel, NestJS, Vue.js, Flutter, and Next.js. Currently expanding into AI engineering integrating LLMs (OpenAI, Anthropic Claude), building RAG pipelines with LangGraph, and developing autonomous AI agents for real-world applications. Proven track record in leading teams, mentoring engineers, and delivering high-performance solutions with <300ms latency and 99.9% uptime for systems handling 1M+ API requests. Experienced in client collaboration across the UK, UAE, Brazil, and the Netherlands, with domain expertise in healthcare, e-commerce, social services, and restaurant and order delivery management.

## TECHNICAL SKILLS

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**Frontend Development:** Next.js, Vue.js, React.js, Tailwind CSS, Bootstrap, Livewire, Next UI, Shadcn UI

**Backend Development:** PHP, Laravel, NestJS, Node.js, TypeScript

**Mobile Development:** Flutter, React Native (EXPO)

**AI & LLM Integration:** LangGraph, LangChain, OpenAI (GPT-4), Anthropic Claude, RAG Pipelines, AI Agents, Prompt Engineering

**Cloud & DevOps:** AWS, Azure, Linux, CI/CD, Server Management, Lambda, SES, SQS, SNS, ECS, Amplify, Cognito, MSK - Fully Managed Apache Kafka

**API & Integrations:** REST API Integration, Stripe, MPGS, Google Maps, Uber Eats, PickMe (Sri Lanka), WhatsApp Business API

**Agile & Project Management:** Scrum Facilitation, Sprint Planning, Retrospectives

**Database Management:** SQL, NoSQL (MongoDB, Firebase), MySQL, PostgreSQL, Vector Databases

**Security & Performance Optimization:** Secure coding, Performance tuning, Legacy system optimization

**Technical Documentation & Code Review:** API documentation, Code standards compliance

**UI/UX & Design Tools:** Figma, Adobe Suite (for marketing materials)

## PROFESSIONAL EXPERIENCE

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**ASSOCIATE TECH LEAD** Mar 2025 – Present

**DxDy (SmallAxe Pvt Ltd), Sri Lanka (Onsite)**

*Reporting to the Software Architect, contributing as part of a 5–7 member team, with international client exposure through projects based in Sri Lanka and the UAE.*

- Architected and maintained a distributed system of 8+ NestJS microservices, enhancing scalability and fault tolerance to handle 1M+ monthly API requests with <300ms average latency.
- Led integrations with 4+ payment gateways (PayHere, Visa, Amex, Stripe), ensuring secure transactions with a <1% failure rate.
- Integrated with 5+ food delivery platforms (e.g., PickMe, Uber Eats, Noon, Talabat), enabling real-time order sync, pricing, and availability updates.
- Collaborated with 5+ cross-functional teams (Product, DevOps, QA) to deliver cloud-native solutions on AWS, meeting 99.9% uptime SLAs.
- Mentored 5+ engineers, conducting weekly design/code reviews and reducing code smells by 40%, promoting SOLID, DRY, and clean code practices.
- Spearheaded an event-driven architecture using Apache Kafka, AWS SNS & SQS, reducing inter-service delays by 80% and improving observability.
- Directed 6+ sprints, delivering projects on time and within scope, while mitigating 10+ high-risk issues pre-deployment.

- Contributed to 10+ architecture review sessions, shaping system scalability to handle a 4x user growth within 3 months.
- Core contributor on an AI-powered Medical Concierge application — a WhatsApp-based platform enabling users to manage, query, and summarise personal health reports and medical documents using LLMs (OpenAI GPT-4 & Anthropic Claude). Built end-to-end RAG pipelines with LangGraph, implemented AI Agents for multi-step medical document understanding, and integrated the WhatsApp Business API for voice and text message handling. [Pre-launch]

**International Client Exposure** - UAE

**Domain Knowledge** - Restaurant and Order Delivery Management, Healthcare AI

## **SENIOR SOFTWARE ENGINEER** Dec 2022 – Mar 2025

### **DxDy (SmallAxe Pvt Ltd), Sri Lanka (Onsite)**

*Reported to the Software Architect, working within a team of 2 to 10 members, with international client exposure through two projects based in the United Kingdom.*

- Led 3 software projects, delivering high-quality solutions through strategic technical guidance.
- Scrum Master for an 8-member team, boosting collaboration, productivity, and delivery efficiency.
- Led a team of 6 developers delivering solutions with PHP, Laravel, NestJS, and Next.js, achieving 30–50% improvement in application performance.
- Oversaw the full lifecycle of web applications in an agile environment, completing 4–6 projects from design to deployment, improving development speed by 20–40%.
- Integrated 3–5 payment gateways, Google Maps, and charting tools, increasing customer engagement by 25–50%.
- Mentored 3–6 junior engineers, leading to 30–60% improvement in team productivity and skill development.
- Resolved 50–100 technical challenges, maintaining on-time delivery rate of 90–98%.
- Developed 4–6 responsive web applications using HTML, Tailwind CSS, Next.js, and Livewire, achieving 20–50% reduction in load time.

**International Client Exposure** - United Kingdom

**Domain Knowledge** - Healthcare, Apparel, Education, Sports

## **SOFTWARE ENGINEER** Jan 2022 – Apr 2023

### **WJTI Informatica, Brazil (Remote)**

*Reported to the Tech Lead, working within a team of four members.*

- Designed and implemented new features, resulting in a 30% increase in user engagement and 40% reduction in feature-related bugs.
- Automated deployment processes using CI/CD pipelines, reducing deployment time by 50% and minimising errors by 30%.
- Optimised legacy code, improving application speed by 40% and achieving a 35% improvement in user experience.
- Implemented robust security measures, resulting in a 60% reduction in security incidents and compliance with GDPR and ISO standards.

**International Client Exposure** - Brazil — 5 projects as core team member

**Domain Knowledge** - Ecommerce, Event Management, Social Service

## **FREELANCE SOFTWARE ENGINEER** May 2020 – Jan 2022

### **WJTI Informatica, Brazil (Remote)**

- Built scalable multi-tenancy systems and e-commerce sites using Laravel, Vue.js, and Tailwind CSS, supporting 500+ concurrent users.
- Managed Linux servers — provisioning, configuration, and troubleshooting — improving server uptime by 20%.
- Created and maintained technical documentation, reducing team onboarding time by 40%.

- Conducted code reviews, reducing code defects by 30% and improving adherence to coding standards.

**International Client Exposure** - Brazil — 5 projects as core team member

**Domain Knowledge** - Ecommerce, Event Management, Social Service

**IT CONSULTANT (PART-TIME)** Jan 2022 – Mar 2023

**Berendina Group, Sri Lanka (Onsite)**

- Delivered expert consultancy on systems and mobile apps, reducing user-reported issues by 40%.
- Trained employees on developed systems and mobile apps, achieving a 30% increase in user adoption.
- Conducted product demonstrations and led webinars for international stakeholders.

**International Client Exposure** - Netherlands

**Domain Knowledge** - Community Development, Social Service

**SENIOR WEB/MOBILE DEVELOPER** May 2019 – Jan 2022

**Berendina Group, Sri Lanka (Onsite)**

- Developed a comprehensive MIS using Laravel and Tailwind CSS, improving data management efficiency by 35%.
- Created a mobile app to track employee field visits, GPS routes, and fuel allowances, reducing administrative workload by 40%.
- Integrated mobile app data into the MIS, enabling 25% more efficient performance tracking and reporting.

**International Client Exposure** - Netherlands

**Domain Knowledge** - Community Development, Social Service

**WEB/MOBILE DEVELOPER** Feb 2017 – May 2019

**Berendina Group, Sri Lanka (Onsite)**

- Developed a skill and job management system using PHP CodeIgniter and Bootstrap, improving user engagement by 30%.
- Created and maintained a CMS website ensuring 99.9% uptime.
- Implemented employer tools for posting job openings and searching candidates, improving recruitment efficiency by 35%.

**International Client Exposure** - Netherlands

**Domain Knowledge** - Community Development, Social Service

## EDUCATION & PROFESSIONAL QUALIFICATIONS

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**Post Graduate Diploma in Business Administration & Management** | Wayamba University, Sri Lanka | 2023

**Certificate in Flutter Development** | Elegant Media, Sri Lanka | 2021

**BSc. Management – Business Information Technology (Special)** | Rajarata University, Sri Lanka | 2014