

Waruna Madushan

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• ABOUT ME

Senior Software Engineer and Tech Lead with 10+ years of progressive industry experience in designing microservices, scalable distributed architectures, and AI/ML-driven backend applications. Seeking admission to an advanced Master's degree program in **Computer Science / Artificial Intelligence / Data Science**. Aiming to bridge extensive full-stack and machine learning software engineering experience with deep theoretical research in generative AI, natural language processing, and scalable systems.

• EDUCATION & TRAINING

06/05/2017 - 15/04/2022 - DEHIWALA-MOUNT LAVINIA, SRI LANKA

BACHELOR OF TECHNOLOGY IN SOFTWARE TECHNOLOGY- UNIVERSITY OF VOCATIONAL TECHNOLOGY

Final grade: 3.07 / 4.00 | **Level in EQF:** 6 | **Number of credits:** 180 ECTS | **Website:** <http://univotec.ac.lk>

04/03/2014 - 03/01/2016 - MARADANA, SRI LANKA

NVQ LEVEL 5 – DIPLOMA IN ICT- COLLEGE OF TECHNOLOGY

Level in EQF: 5 | **Website:** <https://dtet.gov.lk>

06/02/2013 - 12/05/2014 - MARADANA, SRI LANKA

NVQ LEVEL 4 – NATIONAL CERTIFICATE IN ICT- COLLEGE OF TECHNOLOGY

Level in EQF: 4 | **Website:** <https://dtet.gov.lk>

• WORK EXPERIENCE

ANTS CREATION (PVT) LTD - GAMPAHA, SRI LANKA

Website: <https://ants.lk>

• TECH LEAD 03/01/2022 - 26/03/2026

- **Architectural Leadership:** Led a team of 5+ software engineers delivering enterprise-grade SaaS platforms, microservices architecture, and AI-powered enterprise applications.
- **AI & RAG Integration:** Designed and built an Enterprise AI Knowledge Assistant leveraging **FastAPI**, **LangChain**, **RAG (Retrieval-Augmented Generation)** architectures, vector search databases, and LLMs.
- **Microservices & Cloud:** Architected and deployed production microservices using **FastAPI**, **Spring Boot**, **Laravel**, **Kafka**, **Redis**, **Docker**, and **AWS**
- **Performance & Optimization:** Designed high-throughput REST APIs handling thousands of daily transactions.
- **DevOps & Quality Assurance:** Automated CI/CD pipelines via **GitHub Actions** and **Jenkins**, cutting deployment time by 60%. Integrated **SonarQube** to control technical debt and enforce code quality.

• SENIOR SOFTWARE DEVELOPER 01/04/2019 - 31/12/2021

- **Backend Systems:** Engineered scalable backend applications using **Laravel, Spring Boot, MySQL, and PostgreSQL**
- **Database Optimization:** Optimized complex SQL queries and database indexing strategies, reducing API response times by 35%.
- **DevOps & Frontend:** Managed containerized Docker deployments on **AWS EC2**. Built integrated **ReactJS** components for enterprise applications.
- Engineered backend modules for e-commerce, booking, and enterprise platforms.
- Integrated global payment systems (Stripe, PayPal) and implemented **JWT authentication** and **Role-Based Access Control (RBAC)** security modules.

● **WEB DEVELOPER**01/08/2016 - 29/03/2019

- Developed responsive web applications and custom CMS modules using **PHP, Laravel, JavaScript, and Bootstrap**

01/07/2015 - 29/07/2016 - NUGEGODA, SRI LANKA

WEB DEVELOPERDESIGN SOLUTION

- Developed SME applications, inventory tools, and booking platforms utilizing **PHP, CodeIgniter, and MySQL**

17/07/2013 - 16/01/2014 - COLOMBO, SRI LANKA

COMPUTER APPLICATION ASSISTANTMINISTRY OF DEFENCE – SRI LANKA

Website: <https://www.defence.lk>

● **SKILLS**

AI, ML & Data Science

Generative AI | LLMs | Hugging Face | RAG Architecture | Time-Series Forecasting | Prompt Engineering | LangChain

Programming Languages

Python | PHP | Java | JavaScript

Frameworks & Libraries

Flask | Laravel | Spring Boot | Node Express | ReactJS | FastAPI | Bootstrap | Node.js

Databases & Caching

PostgreSQL | SQL | MySQL | MongoDB | Redis

Distributed Systems & Messaging

GraphQL | Apache Kafka | Linux | REST APIs

Cloud & DevOps

Git | Docker | CI/CD | Kubernetes | AWS | Jenkins

Security & Governance

SonarQube | JWT | OAuth 2.0 | API Gateways | RBAC

● **LANGUAGE SKILLS**

Mother tongue(s): **SINHALA**

Other language(s): **ENGLISH**