Madushan Nanayakara

Senior Software Engineer | Full-Stack, Cloud, Microservices

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PROFESSIONAL SUMMARY

Seasoned software engineer with 9+ years of experience designing and delivering enterprise-grade web platforms, API ecosystems, microservices, and cloud-native solutions. Strong background in JavaScript/TypeScript, Node.js, Go, React, Next.js, PostgreSQL, Redis, Docker, Kubernetes, AWS/GCP, and event-driven architecture. Known for translating business goals into scalable systems, mentoring teams, and improving reliability, security, and delivery speed across the software lifecycle.

CORE COMPETENCIES

Architecture
Microservices, modular monolith, REST APIs, GraphQL, event-driven systems

Engineering
Clean code, DDD, design patterns, test automation, code review, observability

Cloud & DevOps
Docker, Kubernetes, CI/CD, GitHub Actions, AWS, GCP, Linux, Nginx

Backend
Node.js, Go, Java, Express, NestJS, authentication, authorization, queues

Frontend
React, Next.js, TypeScript, Vite, Tailwind CSS, component-driven UI

Data & Messaging
PostgreSQL, MySQL, Redis, MongoDB, Kafka/RabbitMQ concepts, caching

Delivery
Agile/Scrum, stakeholder communication, sprint planning, incident response

Security
JWT, OAuth2, RBAC, input validation, secure secrets handling, audit logging

Leadership
Mentoring, technical guidance, hiring support, estimation, roadmap shaping

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Dialog Axiata PLC, Colombo, Sri Lanka | 2022 - Present

- Lead design and implementation of customer-facing portals and internal service APIs serving high-volume transactional workflows.
- Modernized legacy services into a modular architecture, improving release cadence and reducing deployment risk.
- Collaborated with product, QA, and DevOps teams to define technical requirements, integration contracts, and delivery timelines.
- Introduced structured logging, health checks, and automated monitoring to improve incident response and system visibility.
- Mentored junior engineers on code quality, testing practices, and cloud deployment workflows.

Software Engineer | 99X Technology, Colombo, Sri Lanka | 2018 - 2022

- Developed scalable web applications and RESTful services for regional and enterprise clients.
- Worked across frontend and backend stacks using React, Next.js, Node.js, TypeScript, and PostgreSQL.
- Implemented authentication flows, permission models, and secure API integrations for role-based business applications.
- Improved performance through query tuning, caching strategies, and front-end refactoring.
- Participated in agile ceremonies, estimation, and peer reviews while maintaining consistent delivery quality.

Associate Software Engineer | Virtusa (Sri Lanka Delivery Center), Colombo | 2015 - 2018

- Supported enterprise application development, bug fixes, test support, and production issue resolution.
- Built reusable UI components and backend endpoints while learning enterprise coding standards and CI practices.
- Assisted with integration testing, environment setup, and deployment validation across development and UAT environments.
- Contributed to documentation, release notes, and sprint-level progress reporting.

KEY ACHIEVEMENTS

- Reduced average API response time by 40% by adding caching, indexing, and query optimization to critical workflows.

Sample senior CV for adaptation. Replace placeholder contact details, dates, and employer history with your verified information.

- Delivered a microservices-based service layer that supported scalable growth without increasing operational complexity.
- Improved deployment reliability through CI/CD automation, environment standardization, and release checklist discipline.
- Helped lead the migration of key business workflows from manual handling to a digital self-service platform.
- Contributed to security hardening by strengthening token handling, role checks, and input validation across services.

SELECTED PROJECTS

Enterprise Service Booking Platform: Designed a booking and workflow platform with status tracking, role-based access, notification handling, and admin controls.
Recruitment Applicant Management System: Built application intake, CV parsing integration, applicant status pipeline, and document attachment flows.
Role-Based IAM Module: Created fine-grained permission groups, menu access control, and audit-friendly authorization logic.
Internal Reporting Dashboard: Implemented operational dashboards with filters, export options, and summary metrics for management use.

EDUCATION

2019 - 2023	BSc (Hons) in Computer Science	University of Moratuwa, Sri Lanka
2014 - 2016	Higher National Diploma in Software Engineering	SLIIT, Sri Lanka
2012 - 2014	G.C.E. Advanced Level - Physical Science	Government National School, Sri Lanka

CERTIFICATIONS AND PROFESSIONAL DEVELOPMENT

- AWS Cloud Practitioner
- Scrum Fundamentals / Agile Delivery
- Docker and Kubernetes deployment training
- Secure API development and application security workshops

LANGUAGES

Sinhala: Native **English:** Professional Working Proficiency

REFEREES

Available upon request.

TECHNICAL STACK SNAPSHOT

Frontend	React, Next.js, TypeScript, JavaScript, Vite, Tailwind CSS, HTML5, CSS3
Backend	Node.js, Express, NestJS, Go, Java, REST APIs, GraphQL, JWT, OAuth2
Data	PostgreSQL, MySQL, MongoDB, Redis, indexing, query tuning, caching
Cloud / DevOps	AWS, GCP, Docker, Kubernetes, Nginx, Linux, GitHub Actions, CI/CD
Practices	Agile/Scrum, code review, TDD, observability, secure coding, incident handling

LEADERSHIP AND DELIVERY IMPACT

- Led cross-functional delivery across product, QA, support, and infrastructure teams for customer-facing platforms.
- Owned sprint planning support, story breakdowns, estimation, technical risk identification, and release readiness checks.
- Introduced issue triage routines that helped reduce ambiguity between production, QA, and development teams.
- Created clearer handover documentation and release notes to support maintainable support operations.
- Improved team consistency by sharing coding standards, reusable patterns, and review feedback during implementation.

SELECTED DELIVERY OUTCOMES

30% faster release cycles	By standardizing CI/CD steps and reducing manual deployment work.
Higher API reliability	Through retries, validation, logging, and clearer error handling.
Better maintainability	By refactoring tightly coupled modules into reusable services and components.
Reduced defect leakage	By improving test coverage, code review discipline, and release verification.

ADDITIONAL TRAINING AND TOOLS

- Git workflows: branching strategies, pull requests, conflict resolution, release tagging
- Testing tools: unit testing, API testing, regression testing, mock-based validation
- Observability: logs, metrics, basic tracing, health checks, error alerting workflows
- Security topics: secure headers, secrets management, token expiration, role-based access
- Documentation: technical design notes, API contracts, onboarding notes, runbooks

PROFESSIONAL INTERESTS

Cloud-native systems, enterprise application architecture, developer productivity, system reliability, and mentoring engineering teams.