Binara medawatta

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Professional summary

Senior Software Engineer with 8+ years of development experience, including 4+ years in professional full-stack roles delivering scalable web and mobile solutions. Skilled in React, Next.js, Angular, Node.js, and AI-assisted development, with expertise in cloud platforms, microservices, and CI/CD. Experienced in driving high-impact projects, modernising legacy systems, and mentoring engineers. Passionate about web and mobile development, IoT, and emerging technologies, with a proven ability to thrive in fast-paced environments. Committed to fostering innovation and impact.

Skills

Technical Skills

- **Programming & Scripting:** JavaScript (ES6+), TypeScript, HTML, CSS, SQL, Bash
- **Frontend Development:** React.js, Next.js, Angular, Redux Toolkit, Sanity Studio
- **Backend Development:** Node.js, Nest.js
- **Databases:** MySQL, Oracle, Firebase (Firestore, Realtime DB), MongoDB
- **Cloud & DevOps:** AWS, GCP, Vercel, CloudWatch
- **Version Control & CI/CD:** Git, GitHub, GitLab, GitHub Actions, AWS CodePipeline
- **Build Tools:** npm, yarn, pnpm
- **APIs & Integrations:** REST, GraphQL, Maps APIs (Google, MapBox), Mandrill, Stripe, MQTT
- **Tools & Testing:** Swagger, Jest, Jira, AI-assisted coding (Vibe Coding, Cursor, GitHub Copilot)
- **Methodologies:** Agile (Scrum, Kanban)
- **Hardware & IoT:** Arduino, ESP32
- **Operating Systems:** macOS, Linux, Windows

Non-Technical Skills

- **Leadership & Management:** Team Leadership, Mentorship, Decision Making, Time Mgmt
- **Communication & Collaboration:** Public Speaking, Teamwork, Client Interaction
- **Problem Solving & Learning:** Critical Thinking, Creativity, Fast Learning, System Design

Experience

Senior Software Engineer | 99x   February 2024 - Current

Responsible for full-stack development on multiple client projects, including Confirma and UpNorway. Worked closely with clients for requirements gathering, demos, and feedback. Contributed to system architecture, feature modularisation, and database design while collaborating in cross-functional agile teams.

UpNorway – Travel Curating System (Norway)

- Led development of the Journey Builder module. Designed and implemented new features along with supporting database structures.
- **Tech stack:** Angular, Node.js, Nest.js, Next.js, MySQL, GraphQL, Mandrill, AWS

Confirma / Compilo – Municipality System (Norway, Finland, Sweden)

- Built a map-based reporting tool using OpenStreetMap. Developed new features, resolved critical bugs for public-facing systems, and conducted POCs.
- **Tech stack:** GCP, Firebase, Google Maps API, MapboxGL, OpenStreetMap, React, Redux Toolkit.

Software Engineer | 99x   **May 2022 - January 2024**

Full-stack development on three Norwegian projects in cross-functional Kanban teams. Worked directly with clients for requirements gathering, demos, and feedback. Contributed to feature development, bug fixes, and system maintenance across multiple projects.

Confirma / Compilo – Municipality System (Norway, Finland, Sweden)

- Migrated web application to Redux Toolkit. Developed new features and resolved bugs.
- **Tech stack:** GCP, Firebase, React, Redux Toolkit, Node.js

UpNorway – Travel Curating System (Norway)

- Maintained legacy web app and website, implemented bug fixes and change requests. Upgraded Angular, Stripe, and other dependencies.
- **Tech stack:** MySQL (Amazon RDS), Next.js (Vercel), Node.js (AWS Serverless), Sanity Studio, Angular.

Facilit – Company Facility Management System

- Implemented backend change requests and bug fixes for mobile and web apps.
- **Tech stack:** MSSQL, Angular, .NET Core, .NET Standard.

Co-Founder/Director - ICE2K Technologies (PVT) Ltd.   **October 2020 - November 2022**

Co-founded a tech startup focused on IoT and web development. Worked part-time as a full-stack developer with responsibilities spanning customer interaction, system design, and implementation of web solutions.

Sri Lanka Foundation Platform (2022)

- Designed architecture and developed backend APIs for a virtual event platform. Integrated APIs with a frontend featuring mini-games, exhibition halls, and a virtual auditorium.
- **Tech stack:** MySQL (AWS), React.js, Node.js.

Attendance Management System (2021)

- Developed a CSR system for Sri Lanka's Ministry of Education to record and report daily school attendance nationwide. Generated customizable attendance reports at provincial, zonal, and national levels.
- **Tech stack:** MySQL (TypeORM), React.js, Nest.js (TypeScript), Swagger.

Software Engineer (Intern) - Inova IT Systems (PVT) Ltd.   October 2020 - April 2021

Worked on full-stack development for national-level government projects. Gained hands-on experience in system design, frontend and backend development, and integrating microservices within a collaborative agile environment.

E-Revenue License System – National-Level Project

- Developed a system to manage electronic revenue licenses. Built backend microservices with unit testing and integrated them with frontend applications. Developed frontend modules for internal, admin, and public web portals.
- **Tech stack:** MySQL (TypeORM), React.js, Nest.js (TypeScript), Swagger, Jest, Camunda BPM

Associate Software Engineer - Inova IT Systems (PVT) Ltd.   January 2017 - January 2018

Worked full-time on web development across multiple projects in cross-functional agile teams. Gained experience collaborating with diverse teams and applying agile methodology.

Inventory Control System & Intranet System – People's Bank

- Developed systems to manage internal inventory and the branch intranet.
- **Tech stack:** Oracle (DB), Oracle ADF 12g.

Inova Internal Portal

- Built a portal to manage resources and materials for company staff.
- **Tech stack:** HTML, CSS.

Research Experience

BIT Research Project Supervisor, University of Moratuwa   2022 – 2023

Volunteered as a supervisor for final-year BIT undergraduate projects, guiding students on system design, development, and project management.
Projects Supervised:

- **2023:** Hospital Information Management Systems – ProClinic and Arogya Ayurvedic Medical Centre
- **2022:** Ran Aswanu

The Smart Gardener   May 2021 – June 2022

Undergraduate final year Group Research Project focused on designing smart gardening systems to reduce cost and energy usage. Developed two algorithms for optimal sensor and pipe placement, implemented a web application and IoT prototype, and led a team of 3 members. System developed using a microservices architecture.

- **Tech stack:** MongoDB, InfluxDB, React.js, Nest.js (TypeScript), Node.js, Arduino
- **Protocols:** HTTP, MQTT
- **Responsibilities:** Sensor Placement Algorithm, IoT Prototype, Plant Module & Plant Variety Module of the web application.

Education

B.Sc. (Hons) in Software Engineering | University of Colombo   **2018 - 2022**

- GPA: 3.67/4.00

G.C.E. A/L 2016 and G.C.E. O/L 2013 | Nalanda College   **2003 - 2016**

- G.C.E. A/L (Physical Science Stream) – 2016
  - Z-score: 1.6329 (Combined Mathematics – A, Chemistry – B, Physics – C)
- G.C.E. O/L – 2013
  - 8 A's, 1 B

Activities & Achievements

Professional & Technical Achievements

- Winner, Internal Vibe Coding Hackathon (2025) – 99x
- Winner, President's Challenge Trophy Mercantile Swimming Championship, Novices Breaststroke (2023)
- Member, Xians' Club, 99x – lead role in major event (2024/2025)
- 13th Place, Hacktitude (2022); 4th Place, SLIIT Codefest CTF (2019)
- Finalist, SLIOT (2019) & Microbit Hackathon (2018)
- 60th Place (LK), IEEE Xtreme (2018)

Leadership, Volunteering & Sports

- Director/Technical Officer, Esala Foundation (2021–Present)
- Vice President – Delegates, ReidCon (2021)
- Web Officer, CompSoc UoC (2019–2020); Member (2018–2019)
- Co-Organiser, UCSC Career Fair (2021); Committee Member (2019)
- Welfare Committee Member, Inova IT Systems (2020)
- Conducted mock interviews for BIT undergraduates via Uni Relations Innovative, 99x
- Volunteered at National Olympiad in Informatics (2018, 2019)
- Organised tech talk sessions for University of Colombo students
- Member, IEEE CS Chapter, ACM Student Chapter, IEEE Student Branch, UCSC
- Competitor, Mercantile Table Tennis (2023, 2024) & Tennis Tournament (2022)
- Member, UCSC Swimming Squad – Interfaculty Champ (2018), Runner-up (2019)
- Vice-Captain, Nalanda College Table Tennis Team (2015–2016)

Non-Related Referees

Mr. Mano Chinthaka Dasanayaka – Team Leader, NetValue Ltd, New Zealand
Email: mano.c.dasanayaka@gmail.com | Phone: +64 221 978 817

Mr. Kasun Chathuranga – Principal Architect, Inova IT Systems (PVT) Ltd
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