

NIVIN MADAWALAGE

Matale, Sri Lanka

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SUMMARY

A software engineer with a strong interest in AI and cloud technologies, known for combining analytical thinking with creative problem-solving to design scalable, intelligent systems. Focused on building solutions that are both technically sound and impactful in real-world applications.

WORK EXPERIENCE

Software Engineer, H2O.ai

Mar 2025 - Present

- Contributed to the development of AI-driven platform applications using **React**, **Go**, and **Python**, collaborating across teams to deliver efficient, user-focused solutions.
- Deployed and managed these applications on **AWS** and **Kubernetes**, ensuring reliable, secure, and automated production environments.
- Collaborated with cross-functional teams to integrate new AI features and streamline development workflows.

Software Developer, Seamless Enterprise Solutions

Oct 2023 - Mar 2024

- Developed scalable and efficient software solutions using **AWS** and **ASP.NET**, contributing to multiple full-stack projects.
- Partnered with product managers and stakeholders to translate business needs into technical solutions.
- Troubleshooted and resolved production issues, ensuring smooth and reliable operation of the developed product.

Research Assistant, Network Softwarization and Security Lab (NetsLab)

Oct 2022 - Oct 2023

- Contributed to a research project focused on detecting harmful RF radiation exposure in Sri Lanka using **Blockchain technology**.
- Developed and implemented a blockchain-based spectral power misuse detection system integrated with an **Android app** to alert users of unsafe radiation levels.

EDUCATION

BSc. (Hons) Electrical and Information Engineering

2024

University of Ruhuna, Sri Lanka | GPA - 3.4

RESEARCH PUBLICATIONS

Blockchain-enabled RF Radiation Exposure Level Measurement in Wireless Mobile Networks

2024 IEEE 21st Consumer Communications & Networking Conference (CCNC), 2024

DOI: [10.1109/CCNC51664.2024.10454816](https://doi.org/10.1109/CCNC51664.2024.10454816)

PROJECTS

Cuff Cloud: Multi-Tenant SaaS for Medical Clinics

Personal project · Full-stack developer · <https://cuff.clinic>

A practice-management platform for clinics covering appointments, patients, prescriptions, inventory and billing. Each clinic signs up and gets its own subdomain, set up automatically.

- Built schema-per-tenant data isolation in PostgreSQL, picking each request's tenant from its host
- Built self-serve checkout with Stripe through a payment adapter, with verified webhooks and automated tenant provisioning jobs
- Turned features on or off per tenant based on its plan, and added role-based permissions with a startup check that blocks any unprotected API route

Tech: Next.js · TypeScript · NestJS · Prisma · PostgreSQL · Tailwind · Stripe · Docker

LICENSES & CERTIFICATIONS

Frontend Developer Professional Certificate

2023

Meta | [Verify Certificate](#)

Python Programming

2023

Wesleyan University | [Verify Certificate](#)

CORE SKILLS

- **Programming & Frameworks:** Python, JavaScript, Go, React, ASP.NET
 - **Cloud & DevOps:** AWS, Kubernetes, Jenkins, CI/CD pipelines
 - **AI & Machine Learning:** AI development, LLMs
 - **Web & Software Development:** Full-stack development, REST APIs, scalable web applications
 - **Tools:** LaTeX, MS Word, MS Excel, MS Powerpoint
 - **Other Technologies:** Blockchain technology, decentralized applications, Web3
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ACTIVE INVOLVEMENTS

- Member - Telecommunications Regulatory Commission of Sri Lanka (TRCSL) Research Granted Project Group | 2023
 - Junior Treasurer - IET on Campus University of Ruhuna | 2022-2023 / 2023-2024
 - Team Leader (iGV) - AIESEC in University of Ruhuna | 2021 - 2022
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REFERENCES

Dr. Madhusanka Liyanage

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Mr. Shamil Premathunga

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