

Nuwan Jaliyagoda

Senior Software Engineer | Applied ML & Reinforcement Learning Research

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Education

MSc. in Advanced Software Engineering University of Westminster - Distinction Pass	United Kingdom 2023 - 2025
BSc. (Hons) Computer Engineering University of Peradeniya, 1st Class with Honors GPA: 3.8/4.0	Sri Lanka 2017 - 2021
G.C.E. Advanced Level (Physical Science) Dharmaraja College, Physics (A), Combined Maths (B), Chemistry (A) Z-Score: 2.0031 Country Rank: 779	Sri Lanka 2013 - 2015

Work Experience

Senior Software Engineer Software Engineer Rhino Partners <i>Projects:</i> Canvas (Singapore), Singlife Mobile (Singapore), EMS – Singapore Press Holdings, CaterCare (Australia) <i>Skills:</i> Python, JavaScript/TypeScript, PHP, Django, NextJS, Laravel, NestJS, AWS, Azure	Aug 2023 - Present Aug 2022 - July 2023
Temporary Instructor (Teaching Assistant) University of Peradeniya <i>Courses:</i> Software Project Management, Programming Methodology, Computer Systems Engineering, Embedded Systems	Sept 2021 – Aug 2022
Trainee Software Engineer LiveRoom (Pvt) Ltd, Sri Lanka Developed IoT Greenhouse Monitoring System (MERN Stack)	Apr 2021 – Aug 2021
Freelancer, Telco & Web App Developer Dialog Ideamart & Mobitel mSpace 340+ projects based on Telco API integration for 60+ clients	2015–2024

Research & Publications

Internet of Things (IoT) for Smart Agriculture: Assembling and Assessment of a low-cost IoT system for Polytunnels , Journal: <i>PLOS One</i> , 2023 doi: 10.1371/journal.pone.0278440
Mixed-Reality based Multi-Agent Robotics Framework for Artificial Swarm Intelligence Experiments Journal: <i>IEEE Access</i> , 2023 doi: 10.1109/ACCESS.2023.3317434
Simultaneous Localization and Mapping with Cost-Effective Sensors , <i>International Research Conference on Smart Computing and Systems Engineering (SCSE)</i> , April 2025 doi: 10.1109/SCSE65633.2025.11030968

Selected Awards & Honors

- **Emerging Innovator of the Year** – Google I/O Extended SL (2018)
- **Winner** – IEEE R10 HTC Products Competition, Asia Pacific Region (2018)
- **IEEE Xtreme 13.0** – Country Rank 21st / Global Rank 436th (2019)
- **1st Place** – Undergraduate Category, Dialog App Challenge (2017)
- **1st Place** – Sri Lankan Robotics Challenge (2015)
- **1st Place** – School Category & Overall Best App, Dialog App Challenge (2015)
- **4th Place** – Represented the Sri Lankan Team in the International Schools' Software Competition, Rajalakshmi Engineering College, Chennai, India (2014)

Technical Skills

Languages	Python, JavaScript, PHP, Java, C, C++, TypeScript
Frameworks	Django, Laravel, React, NextJS, NestJS, Express, Jekyll
Web	HTML5, CSS3, Bootstrap, Tailwind, REST
Cloud	AWS, GCP, Azure
Databases	MySQL, PostgreSQL, DynamoDB
Tools	Git, GitHub/GitLab, Docker, Sentry, Jupyter, Pandas, NumPy

Key Interests

- Generative AI & Reinforcement Learning
- Machine Learning & Data Science
- Full-Stack Web Development
- Augmented and Virtual Reality
- Computer Systems and Industrial Automation

References

Prof. Roshan G. Ragel (PhD: UNSW)

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University of Peradeniya, Sri Lanka*

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Mr. Shafraz Rahim

Senior Program Manager, AWS, Singapore

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