Nuwan Jaliyagoda
Senior Software Engineer

https://github.com/NuwanJ
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Education

📅 *2023 Sept - Ongoing*
MSc. Advanced Software Engineering
University of Westminster, United Kingdom

📅 *2017 - 2021*
BSc. Computer Engineering (Hons)
University of Peradeniya, Sri Lanka
First Class Honours | GPA: 3.8 / 4.0

📅 *2013 - 2015*
G.C.E. A/L (Physical Science)
Dharmaraja College, Kandy, Sri Lanka
Physics(A), Combined Maths(B), Chemistry (A)
Z-Score: 2.0031, Country Rank: 779

Extra-Curricular Activities (selected)

2023-2025   **Volunteer Research Fellow,**
Pera-Swarm - University of Peradeniya
(https://pera-swarm.ce.pdn.ac.lk)

2023   **Member - Course Development Team,**
Project Nenathambara
(https://nenathambara.org)

2022-2023   **Member,** Web Consultation Team, University of Peradeniya

2019   **Member/Editor** - ACES Web Team, UoP

2019   **Mentor (Technical),**
Dialog App Challenge - 2019

2017-2018   **Committee Member**
Hackers' Club, University of Peradeniya

2017-2018   **Agent of Influence**
Global Ambassador Network Program, Dialog Ideamart

2014-2015   **President**, Society of Information and Communication Technology, Dharmaraja College

INTERESTS

- Full-Stack Web Development
- Augmented and Virtual Reality
- Computer Systems and Industrial Automation
- Embedded Systems and Robotics
- Reinforcement Learning and AI

Work Experience

- **Software Engineer** (2022 August - 2023 July)
- **Senior Software Engineer** (2023 August - Present)
  - 📍 *Rhino Partners (PTE) Ltd, Singapore*
    Working as a Full Stack Software Engineer
    Languages: JavaScript, Python, TypeScript, PHP
    Frameworks: NextJS, Laravel, NestJS, Django
    Tools: AWS, Azure, GIT

  Projects
  - *Canvas Card, Singapore*
  - *Singlife Mobile, Singapore*
  - *EMS, Singapore Press Holdings (SPH), Singapore*

- **Temporary Instructor (Teaching Assistant)**
  Teaching Software Project Management, Programming Methodology, Computer Systems Engineering and Embedded Systems for BSc. Undergraduates
  - 📅 2021 September - 2022 August
  - 📍 *Faculty of Engineering, University of Peradeniya*

- **Trainee Software Engineer**
  Developed a web based IoT Greenhouse Monitoring and Controlling system (MERN Stack)
  - 📅 April 2021 - August 2021 (6 Months)
  - 📍 *LiveRoom (Pvt) Ltd, Sri Lanka*

- **Freelancer Telco / Web App Developer**
  Completed 340+ projects for 60+ clients
  - 📅 2015-2024 (9 Years)
  - 📍 *Dialog Ideamart / Mobitel mSpace*

Research and Publications

2023   **[Journal] Internet of things (IoT) for smart agriculture: Assembling and assessment of a low-cost IoT system for polytunnels**

Nuwan Jaliyagoda, Sandali Lokuge, P.M.P.C. Gunathilake, K.S.P. Amaratunga, W.A.P.Weerakkody, Pradeepa Bandaranayake, Asitha Bandaranayake
PLOS One, 2023
doi: 10.1371/journal.pone.0278440

2023   **[Journal] Mixed-Reality Based Multi-Agent Robotics Framework for Artificial Swarm Intelligence Experiments**

Dilshani Karunarathna, Nuwan Jaliyagoda, Ganindu Jayalath, Janaka Alawatugoda, Roshan Ragel, Isuru Nawinne
IEEE Access, 2023
doi: 10.1109/ACCESS.2023.3317434

Certificate Courses

• **Reinforcement Learning - AI in Python** by Udemy (UC-acda7b56-3bac-48e3-9c44-d49ebca42c81)

• **Google Cloud Platform Quests** by Google Cloud through Qwiklab Quests (Qwiklab Profile)

Industrial IoT on Google Cloud Platform by Google Cloud through Coursera (C2RL3XK8LLPH)

• **Digital Manufacturing & Design** by University at Buffalo and The State University of New York through Coursera (CCB9KH754KHY)

• **Introduction to Augmented Reality and ARCore** by Google AR and VR through Coursera (LNYK29LZ3NJ6)

• **Design a mobile app interface with Moqups** by Coursera Project Network (SMT99KGNYHVK)

Computer Skills

Programming Languages (Fluent)
JavaScript, Python, PHP, Java, C, C++ Typescript

Programming Languages (Familiar)
C#, Verilog HDL, Visual Basic

Web Developing
HTML5, CSS3, Bootstrap, Tailwind, NPM, REST, JQuery

Database
MySQL, PostgreSQL, DynamoDB

Frameworks
Laravel, Express, React, NextJS, NestJS, Django, Jekyll

Cloud Platforms
AWS, Google Cloud Platform, Azure

Version Control and DevOps
Git, GitHub, GitLab

Graphics / Video
Adobe Photoshop, Adobe Illustrator, Adobe Premier, Adobe After Effects

References

Prof. Roshan G. Ragel *(PhD: UNSW)*
Professor,
Department of Computer Engineering,
University of Peradeniya, Sri Lanka

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Tele: (+94) 77 385 7755

Mr. Shafraz Rahin
Senior Program Manager,
AWS, Singapore
Email: shafraz.cse@gmail.com

SELECTED AWARDS AND HONORS

[T] - Team, [I]- Individual   Details: nuwanjaliyagoda.com/competitions/

Undergraduate Level

2018 **Emerging Innovator of the Year 2018 [I]**
Google IO Extended - Sri Lanka

2018 **Winner [T]**, Asia Pacific Region, IEEE R10 HTC Products Competition

2017 **1st Place [T]**, Undergraduate Category, Dialog App Challenge

2019 **Winner [T]**, Environment and Sustainability Category, ACES Hackathon, University of Peradeniya

2018 **Top 14 Innovators [T]**, HackADev, United Nations Development Program, Sri Lanka

2018 **1st Place [T]**, Emerging Innovator (Team biteCode), SLIIT Codefest 2018

2019 **1st Place [T]**, Pre-Xtreme - Coding Competition

2019 **Country Rank 21st [T]**, IEEEXtreme 13.0 (Global Rank 436)

2018 **1st Runners-up [T]**, Dialog NB-IoT Hackathon, Sri Lanka

School Level

2015 **1st Place [I]**, School Category - All island Sri Lankan Robotics Challenge

2014 **1st Place [T]**, School Category & Overall Best App Dialog App Challenge

2015 **2nd Place [I]**, School Category - All island IESL RoboGames

2014 **4th Place [T]**, Represented Sri Lankan Team International Schools' Software Competition Rajalakshmi Engineering College, Chennai, India

Selected Personal Projects

(Details: nuwanjaliyagoda.com/projects)

2024-2025 **CE Portal** - Department of Computer Engineering, University of Peradeniya (Ongoing)
Technologies: PHP/ Laravel, MySQL, Bootstrap5 [Role: Lead / Mentor for undergraduate student groups in Agile Methodology]

2021-2022 **Smart Inventory Management System** for Department of Computer Engineering, University of Peradeniya
Technologies: PHP/ Laravel, MySQL, Bootstrap5 [Role: Lead / Mentor for undergraduate student groups in Agile Methodology]

2020-2021 **Mixed reality based simulation platform for Swarm Robotics**
Undergraduate Research Project
Technologies: NodeJS, MQTT, Java, Python, C, C++, three.js, threeAR.js, jQuery [Role: Team member, group leader]