



Nuwan Jaliyagoda

Computer Engineering Undergraduate

Detailed copy:
<https://nuwanjaliyagoda.com/cv>

- <https://github.com/NuwanJ>
- <https://linkedin.com/in/nuwan-jaliyagoda>
- <https://nuwanjaliyagoda.blog>
- <https://hackerrank.com/NuwanJ>
- <https://nuwanjaliyagoda.com>

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Education

2017 - Present

BSc. Computer Engineering (Hons),
University of Peradeniya, Sri Lanka
Current GPA: 3.75 / 4.00

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, Island Rank: 779

Certificate Courses

- **Control of Mobile Robots** by Georgia Institute of Technology through Coursera ([5QKECR3LWAPV](#))
- **3D Printing Hardware** by University of Illinois through Coursera ([JP7MGJ73AN9A](#))
- **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](#))
- **Google Cloud Platform Quests** by Google Cloud through Qwiklab Quests ([Qwiklab Profile](#))

Extra-Curricular Activities

- 2019 **Member/Editor** - ACES Web Team, UoP
- 2019 **Mentor (Technical),** Dialog App Challenge - 2019
- 2017-2018 **Committee Member** Hackers' Club, UoP
- 2017-2018 **Agent of Influence** Global Ambassador Network Program, Dialog Ideamart
- 2014-2015 **President,** Society of Information and Communication Technology, Dharmaraja College
- 2008-2009 **Member,** Young Inventors Club, Dharmaraja College

INTERESTS

- Mobile Robotics
- Embedded Systems
- Augmented Reality and Virtual Reality
- Web and Hybrid Mobile Application Developing
- Internet of Things
- Industrial Automation

SELECTED PROJECTS

- 2020-2021 **Mixed reality based simulation platform for Swarm Robotics** (Final Year Research Project)
[Research] Technologies: *NodeJS, MQTT, three.js, threeAR.js* C, C++, Java, jQuery
- 2020 **Greenhouse Automation System with IoT Sensor Network** for Agricultural Biotechnology Center, University of Peradeniya (Ongoing)
[Automation] Technologies: *ESP32, MQTT, C++, NodeJS, Industrial Automation*
- 2020-2021 **Pera Ride,** Bicycle Sharing Platform designing for University of Peradeniya (Ongoing)
[IoT, Web] Technologies: *ESP12, MQTT, NodeJS, REST*
- 2019 **A GUI for Controlling and Supervising Multiple Robots Remotely**
[Hardware] 3rd Year Embedded Systems Project
[Networking] Technologies: *REST, C++, WebSocket, NodeJS*
- 2021 **projects.ce.pdn.ac.lk** Web Portal for University Student Projects
[Software] Technologies: *HTML, CSS, Bootstrap4, Jekyll, Python, REST APIs*
- 2020 **CNC based pick and place arm** for remote automate PLC labs
[Hardware] Technologies: *AVR, MarlinFW, MQTT, NC Code, CNC, CAD*
- 2020 **Smart Trash Collection System** for Urban householders
[Software] Technologies: *PHP, JavaScript with React,*
[Database] *MySQL, Bootstrap*
- 2018 **Student Attendance Portal** Database Project for recording attendance of the university students
[Software] Technologies: *PHP, MySQL, HTML, CSS, JQuery*
- 2018 **SAP-I, 8-bit Bus Organized Computer**
[Hardware] A basic computer by only using logic ICs
Technologies: *Digital Logic Design, PCB Designing and Fabrication*
- 2014 **DDMS - Database Management System** for School Science Section - A/L Group Project
[Database] Technologies: *C#, MS-SQL*

Work Experience

- **Freelancer**, since 2015
Telco and Web Application Developer
Dialog Ideamart / Mobitel mSpace
- **Technical Blog Writer**, 2016 - 2018
<https://nuwanjaliyagoda.blogspot.com>

Computer Skills

Programming Languages (Fluent)

C, Java, C#, Python, MATLAB

Programming Languages (Familiar)

C++, Verilog HDL, Visual Basic, ARM

Hardware Oriented Programming

Atmel AVR, ESP, PIC, Raspberry Pi, PLC

Web Developing

**HTML5, CSS3, Bootstrap,
PHP, JavaScript, JQuery**

Frameworks

**Laravel, Express, ReactJS, VueJS(familiar),
Jekyll**

PCB Designing

Proteus, EagleCAD, Fritzing

Version Control

Git, GitHub

Computer-Aided Designing

**SolidWorks, AutoCAD, 3D Max Studio,
Inventor HSM**

Graphics / Video

**Adobe Photoshop, Adobe Illustrator,
Adobe Premier, Adobe After Effects**

References

Dr. Isuru Nawinne
(PhD: UNSW)

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University of Peradeniya, Sri Lanka
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(PhD: UNSW)

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University of Peradeniya, Sri Lanka
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SELECTED AWARDS AND HONORS

Undergraduate Level

- 2018 **Emerging Innovator of the Year - 2018**
Google IO Extended - Sri Lanka
- 2018 **Winner**, IEEE R10 HTC Products Competition
(Asia Pacific Region)
- 2017 **1st Place**, Undergraduate Category,
Dialog App Challenge
- 2019 **Winner**, Environment and Sustainability Category,
ACES Hackathon, UoP
- 2018 **Top 14 Innovators** (Team biteCode), HackADev,
United Nations Development Program, Sri Lanka
- 2018 **1st Place**, Emerging Innovator (Team biteCode),
SLIIT Codefest 2018
- 2019 **1st Place**, Pre-Xtreme - Coding Competition
- 2019 **Country Rank 21st**, IEEEExtreme 13.0
- 2018 **1st Runners-up**, Dialog NB-IoT Hackathon
- 2018 **Finalist Team**, TADHack - Sri Lanka
Telco App Development Hackathon
- 2017 **2nd Place** - Network & Systems Category
ACES Hackathon, UoP
- 2017 **2nd Place**, Innovators Competition - UoP
Self Balancing Robot Category
- 2018 **4th Place** - University Category,
Sri Lankan Robotics Challenge
- 2020 **4th Place**, LetMeHack v2.0
University of Sabaragamuwa
- 2018 **Finalist**, XbotiX 2018 Robotics Competition
Faculty of Engineering, University of Ruhuna

School Level

- 2015 **1st Place**, School Category - All island
Sri Lankan Robotics Challenge
- 2014 **1st Place**, School Category & Overall Best App
Dialog App Challenge
- 2015 **2nd Place**, School Category - All island
IESL RoboGames
- 2014 **4th Place**, Represented Sri Lankan Team
International Schools' Software Competition
Rajalakshmi Engineering College, Chennai, India
- 2014 **Merit Award**, National Schools' Software
Competition
- 2014 **Dr. Sarath Amunugama Memorial Price**
for Information and Communication Technology
- 2015 **Rajans' Blues**, Colors Nite, Dharmaraja College
- 2012 **1st Place**, Science Quiz Competition
Annual Science Day, Dharmaraja College
- 2013 **2nd Place**, Innovation Competition
ICBT Campus, Kandy