



Nuwan Jaliyagoda

Computer Engineering Undergraduate

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

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

- 198/8, Kesselwatta Road, Sinhapitiya, Gampola, Sri Lanka
- nuwanjaliyagoda@gmail.com
- (+94) 71 150 8542 | (+94) 77 889 1312

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** - 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
- Internet of Things
- Computer-Aided Designing and Manufacturing
- Industrial Automation
- Web and Hybrid Mobile Application Developing

SELECTED PROJECTS

- 2020-2021 **Mixed reality simulation for Swarm Robotics**
[Research] (Ongoing - Final Year Research Project)
Technologies: *NodeJS, MQTT, three.js, C, Java*
- 2020 **CNC based pick and place arm**
[Hardware] for remote automate PLC labs
Technologies: *AVR, MarlinFW, MQTT, NC Code, CNC, CAD*
- 2020 **Greenhouse Automation System with IoT Sensor Network** for Agricultural Biotechnology Center, University of Peradeniya (Ongoing)
[Automation] [IoT] Technologies: *ESP32, MQTT, C++, NodeJS, Industrial Automation*
- 2019 **A GUI for Controlling and Supervising Multiple Robots Remotely**
[Hardware] [Networking] 3rd Year Embedded Systems Project
Technologies: *REST, C++, WebSocket, NodeJS*
- 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*
- 2019 **Pera Knowledge Hub**
[Software] Web Portal for University Student Projects
Technologies: *Java, PHP, MySQL, HTML, CSS, JS, ElasticStack, SpringBoot*
- 2017 **Multi-purpose CNC Milling Machine**
[Hardware] [CAM] 3-axis Computer Numerically controlled machine for PCB fabrication and many other CAM purposes
- 2020 **Smart Trash Collection System**
[Software] [Database] for Urban householders
Technologies: *PHP, JavaScript with React, MySQL, Bootstrap*
- 2018 **Student Attendance Portal**
[Software] [Database] Database Project for recording attendance of the university students
Technologies: *PHP, MySQL, HTML, CSS, JQuery*
- 2014 **DDMS - Database Management System**
[Database] [Software] for School Science Section - A/L Group Project
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

Hardware Oriented Programming

Arduino, ESP, PIC, Raspberry Pi, PLC

Web Developing

HTML5, CSS, Bootstrap,

PHP, JavaScript, JQuery,

Laravel, Express, VueJS, ReactJS

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)

Senior Lecturer,
Department of Computer Engineering,
University of Peradeniya, Sri Lanka

Email: isurunawinne@eng.pdn.ac.lk

Tele: (+94) 71 849 5506

Mr. Shafraz Rahim

(MBA: Cardiff Metropolitan University)

Cloud Community Manager - Southeast Asia,
Google LLC, Singapore

Email: shafrazrahim@google.com

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