



# SHYAMAN JAYASUNDARA

COMPUTER ENGINEERING UNDERGRADUATE

## PERSONAL

**Birthday** : 11<sup>th</sup> June 1995

**NIC** : 951630420v

**Nationality** : Sri Lankan

**Languages** : English, Sinhala

## EDUCATION

### BSc(Eng) in Computer Engineering

University of Peradeniya, Sri Lanka

► Current GPA - 3.9 / 4

### St. Anne's College, Kurunegala

(2006 - 2014)

► G.C.E A/L    ► G.C.E O/L

## CONTACT



shyaman.me



+94 717154023



jmshyaman@eng.pdn.ac.lk  
shayaman321@gmail.com



Temple rd, Millagoda  
Nikaweratiya

## PROFILE

A self-motivated, hardworking undergraduate who is currently maintaining first class GPA. Passion and enthusiasm drives me to seek perfection in the things I do.

## TECHNICAL SKILLS

**PROGRAMMING LANGUAGES**    Java, Python, C, Matlab

**WEB TECHNOLOGIES**    HTML5, Nodejs, PHP, Servlet, JSON, MQTT

**HARDWARE PROGRAMMING**    Arduino, Micro-controller Programming with C, ARM (Assembly Programming), FPGA (Verilog)

**DATABASE SYSTEMS**    MySQL, MongoDB, PostgreSQL

**VERSION CONTROL SYSTEMS**    Git (Github)

**MOBILE DEVELOPMENT**    React Native

**FRAMEWORKS**    React, Botpress

**DEVELOPMENT TOOLS**    IntelliJ IDEA, Visual Studio Code

## PROJECT HIGHLIGHTS

2018

### PeraRide (Group project - 3 members)

Automated bike sharing system for university students and staff to evaluate the mobility patterns of academic campuses and to assess the energy consumption and pollutant emissions produced by the universities.

**Technologies:**    Arduino, MQTT protocol, I2C protocol, NodeJS, Android, ReactJS, SMS Webhooks, Docker

**Contribution :**    Bike locking system, Administrator application, Some of the REST API endpoints

**Github repos :**    <https://github.com/shyaman/PeraRide-AdminApp>  
[https://github.com/shyaman/PeraRide\\_Server](https://github.com/shyaman/PeraRide_Server)

### Dirt\_\_Diver - Drainage Inspection Robot (Group project - 4 members)

This robot can be used to identify where the blocks are placed in the drains. The whole robot is going to be automated and it indicates the position of the block very accurately.

**Technologies:**    Raspberry Pi 3, Navio 2, Python, C++

**Contribution :**    Working on path tracking using IMU, Robot controlling

## INTERESTS

- Artificial Intelligence
- Machine Learning
- Biomedical Engineering
- Photography & Videography
- Video and photo editing
- Graphic Designing

## CONNECT



github.com/shyaman



linkedin.com/in/  
shyaman-jayasundara

### Aries\_v4 - Autonomous Quadruiped Robot (Group project - 5 members)

This four legged robot was designed for IESL RoboGames 2018. The task was to reach the destination by line following while determining the directions at junctions.

**Technologies:** Raspberry Pi 3, Navio 2, Image processing(OpenCV), Python

**Contribution :** Implementing robot movements, Designing controlling interfaces

**Github repo :** [https://github.com/shyaman/aries\\_v4-quadruiped](https://github.com/shyaman/aries_v4-quadruiped)

2017

### PeraBot (Group project - 3 members)

An intelligent Chatbot who is going to help university students and staff regarding academic related stuff with the implemented features of querying contact details of the academic and non-academic staff the faculty, making appointments for lecturers, getting subject details, getting timetables of both lecturers and students contact details and contact details querying

**Technologies:** Botpress framework, Google calendar API, NodeJS, Natural Language Processing (Dialogflow), PostgreSQL

**Contribution :** Implementing features such as timetable querying, getting subject details and contact details querying, making appointments for lecturers.

**Github page :** <https://shyaman.github.io/perabot-botpress/>

### Database System for Fuel Bulk Depot (Group project - 4 members)

In bulk depots, the information regarding the fuel distribution is mostly done manually. Therefore a computerized system is an easier way of recording data and handling transactions in very user friendly efficient method rather than using ledgers and books.

**Technologies:** PHP, CSS, MySQL, Javascript

**Contribution :** Front end, SQL queries

## EXTRA CURRICULAR ACTIVITIES

- Participated ACES Hackathon 2018
- Volunteer experience in PATW 2017 organized by IET
- Participated IESL RoboGames 2018
- Photographer at Engineering Students Publication Society
- Participated ACES Hackathon 2017
- Photographer at Perabeats

## REFERENCES

Dr. Dhammika Elkaduwe,  
Head of department,  
Department of Computer Engineering,  
Faculty of Engineering,  
University of Peradeniya,  
Peradeniya.  
+94812393914  
dhammika@ce.pdn.ac.lk

Dr. Roshan G. Ragel,  
Senior Lecturer,  
Department of Computer Engineering,  
Faculty of Engineering,  
University of Peradeniya,  
Peradeniya.  
+94812393913  
roshanr@pdn.ac.lk