



SHYAMAN JAYASUNDARA

COMPUTER ENGINEERING UNDERGRADUATE

PERSONAL

Birthday : 11th 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

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](https://www.linkedin.com/in/shyaman-jayasundara)

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

Aries_v4 - Autonomous Quadruped 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-quadruped

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