SHYAMAN JAYASUNDARA

COMPUTER ENGINEERING UNDERGRADUATE

PERSONAL

Birthday	:	11 th 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

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PROFILE

A self-motivated, hardworking undergraduate who is currently maintaining first-class GPA and interested in data science related projects with experience on the full project pipeline UX/UI(web and mobile), Data mining, developing backends for data handling (servers and DB) and algorithm (ML). Skilled in communicating technical details effectively. Can learn and adapt quickly while contributing responsibly for a team. Passion and enthusiasm drive 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 protocoal, 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

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REFERENCES

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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 concerning 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 lecturer's and student's 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)

Fuel distribution informations of bulk depots are often recorded in paperwork. Hence a computerized system is an obvious way of documenting data and handling transactions in a very user-friendly efficient method rather than using ledgers and books.

Technologies :   PHP, CSS, MySQL, Javascript

Contribution :   Front end, SQL queries

EXTRA CURRUCULAR 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

▸ Resource Person – Arunella seminar programme