

ABOUT ME

A Philomath

INTERESTS

Algorithms

Machine Learning

Reinforcement Learning

Computer Vision

WHO AM I?

Avid reader Gamer

Dreams about traveling Likes food (can cook!!) Borderline otaku

CONTACT ME



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Oshan Mudannayake

Researcher | Developer

PROJECTS -

Realtime Property Evaluation of Large Streaming Graphs
 CS Research, Streaming Graphs, Graph Summarization, Python
 4th year research project carried on the area of massive streaming graph summarization.

· TessTA

React, Java, Spring Boot, Hibernate, Tesseract, AWS
OCR Solution for Sinhala language using Tesseract OCR Engine.

· Petabyte Scale Cloud Storage File Manager

Vue.js, ownCloud, Pug
My Google Summer of Code 2018 project in collaboration with
CERN-HSF, ownCloud and AARNet.

· Bra Elasticity Analyzing System

Java, Swing, Image Processing, OpenCV Implemented a way to compare the elasticity of sports bras using image processing.

Machine Learning over Encrypted Data

Machine Learning, Encryption, Tensorflow, Python, Google Cloud Platform

I worked on adding a layer over Tensorflow to facilitate machine learning on encrypted data over a distributed network of machines.

· Smart Traffic Light System

Angular, NodeJS, Firebase, Google Cloud Platform, Raspberry Pi, Arduino, MQTT, Ionic Framework

Traditional time interval based traffic light system was automated to remove the involvement of traffic officers.

· Yarn Detection System

Image Processing, Python, OpenCV, Raspberry Pi Solution to detect the knots of yarn threads in glove weaving machines.

Glove Defect Identification System

Java, JavaFX, Android, FSR 400 Identified the common defect of gloves using image processing as they are being passed through a conveyor belt.

Play to Learn

Android, Kotlin, Firebase Realtime Database
Android game developed in the style of 'Snake and Ladders' to improve the algorithmic and programming skills of students.

· I Have a Theory

Android, Java

I Have a Theory is a survival based adventure game that is designed to teach Chemistry to school children.

· Smart Glove

Java, JavaFX, FSR 400, Arduino

A glove prototype that can measure the pressure distribution and the acceleration of hand in order to derive the best patterns of movements for Cricket players in relation with the hand pressure.

EDUCATION —

- 2016 2019 BSc(Hons) in Computer Science University of Colombo School of Computing Current GPA: 3.62 (Top 2%)
- 2001 2014 Physical Science Maliyadeva College

EXPERIENCE —

· Research Intern

University of Colombo School of Computing Colombo (Aug 2018 - Jan 2019)

- Conducted a research under the area, "Machine Learning Over Encrypted Data".
- Software Developer (Freelancing)

Language Matters Colombo (Jan 2018 - Present)

- Working part time on developing an OCR solution for Sinhala using Tesseract OCR Engine.
- Software Developer (Freelancing)

Dreamteam IT Solutions Kurunegala (Mar 2016 - Jan 2017)

- Provided R&D solutions to industrial problems such as Bra Elasticity Analysing System, Yarn Detection System and Glove Defect Identification System.
- · Course Instructor

Dreamteam IT Solutions Kurunegala (Jan 2016 - Jun 2016)

 Conducted sessions for introductory robotics and Java 6.

CERTIFICATIONS —

- 2015 Oracle Certified Professional, Java SE
 6 Programmer (Score: 98/100)
 Oracle
- 2015 Robotics and Automation Dreamteam IT Solutions
- 2015 Professional Certified Java Developer Dreamteam IT Solutions
- 2013 Diploma in Software Engineering Esoft
- 2010 Diploma in PC Hardware and Network Administration Esoft

CONFERENCES ——

 2018 - Lightning talk on Phoenix ownCloud Conference at Nuremberg, Germany

ACHIEVEMENTS -

- 2019 HackZurich
 Got selected for the HackZurich at Zurich,
 Switzerland out of 5000+ hackers
- 2018 Google Summer of Code 2018 CERN-HSF
- 2018 Hack The North Participation at Waterloo, Canada
- 2018 CodeZilla Winner
- 2018 LetMeHack Winners
- 2017 HACKINTRA 1st Runners Up
- 2017 CodeFest Designathon Finalists
- 2017 SS12 Asia Semi Finalists
- 2017 Dialog Gaming Hackathon 2nd Runners Up
- 2017 Presistant Hackathon 1st Runners Up
- 2016 Mozilla Web Maker Party Winners
- 2016 CodeFest Tertiary Hackathon 1st Runners Up
- 2016 IEEE preXtreme 1.0 Winners
- 2016 ACES Coders 6th Place
- 2016 Code Experts 5th Place

SCHOLARSHIPS & GRANTS —

- 2019 HackZurich
 Travel grant by Digital Festival
- 2019 Al Summer School Singapore* Scholarship
- 2018 ownCloud Conference 2018
 Full grant by CERN & ownCloud
- 2018 Hack the North 2018 Travel grant

HONOURS & AWARDS —

 2017 - Award of Appreciation UCSC Appreciation Awards

VOLUNTEERING —

- 2019 Google Summer of Code 2019
 Mentor at Google | SCoRe Lab
 Co-mentored 4 projects and 8 students.
- 2019 2nd Year Project Mentoring Mentor at IEEE Student Branch of UCSC
- 2018 Google Code-In 2018
 Mentor at Google | SCoRe Lab
 Interacted with the highest number of tasks (500+) of the org for the year.
- 2018 2nd Year Project Mentoring Mentor at IEEE Student Branch of UCSC
- 2017 Google Code-In 2017
 Mentor at Google | SCoRe Lab
- 2017 Google IO Extended Volunteer at Dialog
- 2017 preXtreme 2.0
 Question panel at IEEE Student Branch of UCSC
- 2017 International School Software Competition (ISSC)
 Mentor | Question panel at Computer Society
- of Sri Lanka (CSSL)

 2017 Help to Code
- Mentor at Information and Communication Technology Agency of Sri Lanka (ICTA)
- 2016 Google Code-In 2016
 Mentor at Google | SCoRe Lab
- 2016 IEEE Student/YP/WIE Congress
 Delegate at IEEE Sri Lanka Section
- 2016 National Software Competition (NSSC)
 Mentor | Question panel at Computer Society
 of Sri Lanka (CSSL)

COMMITTEE POSITIONS

- 2019 President IEEE Student Branch of UCSC
- 2019 Core Team Member Google Developer Group Sri Lanka
- 2019 Team Lead
 Mozilla Activate Sri Lanka Rust Team
- 2018 Web Master
 IEEE Sri Lanka Section | Student Activities
 Committee (SAC)
- 2018 Secretary
 IEEE Student Branch of UCSC
 Coordinated IEEE Annual Get Together, UCSC
 IEEE Day, IEEE Xtreme 12.0
- 2018 Operational Committee Mozilla Activate Sri Lanka
- 2018 Android Developer
 Global Geek Sustainable Learning Kingdom (GGSLK) Sri Lanka
- 2017 Operational Committee | Program Team IEEE Student/YP/WIE Congress
- 2017 Operational Committee | Finance Team Technological Awareness Project by IEEE Sri Lanka Section
- 2017 Operational Committee | Program Team
 | Finance Team
 Cloudhack '17 by IEEE Student Branch of
 UCSC
- 2017 Core Team Member Mozilla Club UCSC
- 2017 Coordinator
 IEEE Student Branch of UCSC
- 2016 Operational Committee | Finance Team Innover - IEEE IAS IOT Workshop
- 2016 Operational Committee | Program Team IEEE Day UCSC
- 2016 Instructor
 Exploration Club | UCSC
- 2014 President Robotics Club
- 2013 Team Lead
 Hardware and Networking Team