



Lasith Niroshan

COMPUTER SCIENCE GRADUATE · OPEN SOURCE CONTRIBUTOR

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| 🌐 lasith-niroshan | 📄 lasithniro

"Be the change that you want to see in the world."

Education

UCSC (University of Colombo School of Computing)

B.SC. (HONS) IN COMPUTER SCIENCE

Colombo

Feb. 2014 - Jan. 2018

Upananda college

GENERAL CERTIFICATE OF EDUCATION (ADVANCED LEVEL)

• Combined mathematics-A Physics-A Chemistry-B

Galle

Jan. 2009 - Jan. 2011

Skills

Programming Python, Node.JS, C/C++, JAVA, Shell Script, MongoDB, LaTeX

Web Flask, Express, React, HTML5, PHP, JavaScript

Languages Sinhala, English

Experience

Sustainable Computing Research Lab

RESEARCH INTERN

SCoRe Lab

Sept. 2016 - Feb. 2017

- Worked on "Detecting mosquito breeding sites using aerial images." research.
- Implemented a Web server for elephant identification using aerial images.
- Developed a drone tracking application for Nanyang Technological University (NTU), Singapore

Undergraduate Research - Enhancing the Accuracy of Wi-Fi Tomographic Imaging Using a Human-Interference Model(Supervisor : Dr. Chamath Kappetiayagama)

RESEARCHER

UCSC

Feb. 2017 - Jan. 2018

- Researched accuracy improvement techniques of Wi-Fi Tomographic Imaging.
- Developed Human Interference model to improve accuracy of Wi-Fi Tomographic Imaging.

Undergraduate Project - Online payment system for universities (EasyPay)

PROJECT EXPERIENCE

UCSC

2015

- Developed a web-based online system to make payments for universities without the use of credit cards.
- System implemented with web based technologies such as PHP, JavaScript, HTML and Amazon EC2

Undergraduate Project - Competitive programming learning Android application(ProgrammingTeacher)

PROJECT EXPERIENCE

UCSC

2016

- Developed a competitive programming learning app.
- System implemented with Android technology.

SinhalaUnicode Firefox addon

PROJECT EXPERIENCE

Open Source

2016

- Developed an addon to translate singlish to sinhala unicode to Firefox browser
- URL : <https://addons.mozilla.org/en-US/firefox/addon/sinhalaunicode/>

DronePilot Android application

PROJECT EXPERIENCE

SCoRe Lab

2017

- Developed an android application for drone pilots.
- Implemented android application with DJI Android SDK

Extracurricular Activity

Google Summer of Code

STUDENT

Sri Lanka

May, 2017 - Aug, 2017

- Developed an open source software for, Sustainable Computing Research Group (SCoRe) beginning May 30, 2017 and ending on August 21, 2017.
- More information about my gsoc project can be found at: <https://summerofcode.withgoogle.com/archive/2017/projects/6170966329655296/>

Google Code-In

MENTOR

SCoRe Lab

2016 and 2017

- Successfully mentored several open source projects.

epihack - Heckathon for health

TEAM MEMBER

Colombo

Nov. 2017

- Developed an API to analyze data, taken from drones.

Asia Pacific ICT Alliance (APICTA) conference

VOLUNTEERING

Colombo

Nov. 2015

- Actively participated for the APICTA conference as a volunteer.

IEEEExtreme coding competition

TEAM MEMBER

UCSC

2014 and 2015

- In 2014, IEEEExtreme 8.0 got 984 world rank and 144 sri lanka rank for PREcoders team.
- In 2015, IEEEExtreme 9.0 got 430 world rank and 64 sri lanka rank for ExceptionZ team.

Research and Publications

Identifying Mosquito Breeding Sites via Drone Images

AUTHOR

SCoRe Lab

June, 2017

- Published a research paper on Proceedings of the 3rd Workshop on Micro Aerial Vehicle Networks, Systems, and Applications.

Poster: A Machine Learning Approach for Identifying Mosquito Breeding Sites via Drone Images

AUTHOR

SCoRe Lab

Aug. 2017

- Published poster on Sensys 2017 conference.

Suppressing Dengue via a Drone System

AUTHOR

SCoRe Lab

Aug. 2017

- Published a research paper on International Conference on Advances in ICT for Emerging Regions (ICTer)

sinhala-etute

FOUNDER & WRITER

Blog

Apr. 2016 - PRESENT

- Writing programming techniques and useful information in computer science.
- URL : <http://sinhala-etute.blogspot.com/>

Program Committees

2015 **Organizer**, Exploration club University of Colombo School of Computing

UCSC

2014 **Member**, compsoc ,University of Colombo School of Computing

UCSC