

Lasith Niroshan

COMPUTER SCIENCE GRADUATE · OPEN SOURCE CONTRIBUTOR

No.219, Near the temple, Upper Thellambura, Nakiyadeniya, Galle.

☎ (+94) 71-032-4637 | ✉ lan@ucsc.cmb.ac.lk | 📱 Lasith-Niro | 🌐 [lasith-niroshan](#) | 📺 [lasithniro](#)

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

Experience

University of Colombo School of Computing - Postgraduate Unit

TEACHING ASSISTANT

- Worked as a teaching assistant for Cryptographic Systems, Information Security and Network Security.
- Conducted lab sessions for Rapid Application Development.
- Prepared relevant contents and assignments.

UCSC

Mar-2018 - Aug-2018

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

RESEARCHER

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

UCSC

Feb. 2017 - Jan. 2018

Half-Life (pvt) LTD.

DATA ANALYST AND SOFTWARE DEVELOPER

- Worked on the web based advertisement suggestion system and several other software development.
- Analyzed data streams on the web based system.
- Implemented back-end APIs for the deferent kind of front-end applications.

Colombo-Canada

Sept. 2016 - Jan. 2018

Sustainable Computing Research Lab

RESEARCH INTERN

- 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

SCoRe Lab

Sept. 2016 - Feb. 2017

DronePilot Android application

PROJECT EXPERIENCE

- Developed an android application for drone pilots.
- Implemented android application with DJI Android SDKa distributed web stress test tool with high anonymity.

SCoRe Lab

2017

Competitive programming learning Android application(ProgrammingTeacher)

UNDERGRADUATE PROJECT

- Developed in Cocos2d-x an action puzzle game(Dragon Buster) targeting U.S. market.
- Implemented API server which is communicating with game client and In-App Store, along with two other team members who wrote the game logic and designed game graphics.
- Won the 2nd prize in final evaluation.

UCSC

Jan. 2013 - Feb. 2013

SinhalaUnicode Firefox addon

PROJECT EXPERIENCE

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

Open Source

2016

Undergraduate Project - Online payment system for universities (EasyPay)

PROJECT EXPERIENCE

- 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

SCoRe Lab

2015

Research and Publications

Enhancing the Accuracy of Wi-Fi Tomographic Imaging Using a Human-Interference Model

AUTHOR

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

ICTer18-Colombo

Sept. 2018

Identifying Mosquito Breeding Sites via Drone Images

Co-AUTHOR

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

DroNet 2017

June. 2017

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

Co-AUTHOR

- Published poster on Sensys 2017 conference.

SenSys 2017

Aug. 2017

Suppressing Dengue via a Drone System

Co-AUTHOR

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

ICTer17

Aug. 2017

sinhala-etute

FOUNDER & WRITER

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

Blog

Apr. 2016 - PRESENT

Presentation

18th ICTer Conference

PRESENTER

- Presentation about Enhancing the Accuracy of Wi-Fi Tomographic Imaging Using a Human-Interference Model

Colombo

Sept. 2018

Skills

DevOps	AWS, Docker, Vagrant, Jenkins, CircleCI
Back-end	Express, Django, Flask, REST API
Front-end	React, HTML5, LESS, SASS
Programming	Python, Node.JS, C/C++, JAVA, Shell Script , MongoDB, LaTeX
Libraries	OpenCV, Tensorflow, Pytorch, SciPy
Languages	English, Sinhala

Extracurricular Activity

Google Summer of Code

STUDENT

- 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/>

Sri Lanka

May. 2017 - Aug. 2017

Google Summer of Code

MENTOR

- Successfully mentored several open source projects

SCoRe Lab

2018 and 2019

Google Code-In

MENTOR

- Successfully mentored several open source projects.

SCoRe Lab

2016 and 2017

epihack - Heckathon for health

TEAM MEMBER

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

Colombo

Nov. 2017

Asia Pacific ICT Alliance (APICTA) conference

VOLUNTEERING

- Actively participated for the APICTA conference as a volunteer.

Colombo

Nov. 2015

IEEEExtreme coding competition

TEAM MEMBER

- 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.

UCSC

2014 and 2015

References

DR. CHAMATH KEPPETIYAGAMA

Senior Lecturer

University of Colombo School of Computing

chamath@ucsc.cmb.ac.lk

DR. KASUN DE ZOYSA

Senior Lecturer

University of Colombo School of Computing

kasun@ucsc.cmb.ac.lk

DR. PRASAD WIMALARATHNE

Senior Lecturer

University of Colombo School of Computing

spw@ucsc.cmb.ac.lk