



Isuru Sachitha Herath

Computer Engineering Undergraduate



I'm an enthusiastic Computer Engineering Student who is motivated to learn new technologies and engineer novel innovations for the betterment of the society. Also, I'm a team player, strategic decision maker and Researcher specialist in problem Analysis and giving effective and creative solutions with minimum resources.

EXPERIENCE

**Trainee Engineer -
Research & Development**
Feb 2020 - present

CODEGEN INTERNATIONAL (PVT) LTD.

Working on Product based Research and Development project which employ Machine Learning, Natural Language Processing and latest web-based technologies

Junior Research Assistant
Nov 2015 - Nov 2016

**NATIONAL INSTITUTE OF FUNDAMENTAL
STUDIES. HANTHANA, SRI LANKA**

Worked on Software Developments and IoT & Embedded Systems in Computer Science and Applied Electronics Lab of NIFS under supervision of Emeritus Prof. Asiri Nanayakkara.

Public Relations Executive
April 2018 - June 2019

SUSTAINABLE EDUCATION FOUNDATION.

Worked as Liaison with Resource persons from STEM field to conduct workshops, Online Sessions on STEM Subjects

Co-Founder & CTO
Feb 2017 - Present

ELEMENTRY INNOVATION LABS.

Elementry Innovations Labs is a startup based focused on R&D of smart technologies. The startup is formed from the hackathon team,

PERSONAL PROFILE

BirthDay : 18TH Feb 1995
Relationship : Unmarried
Nationality : Sri Lankan
Languages : English, Sinhala

SKILLS

Creativity	<div><div></div></div>
Team Work	<div><div></div></div>
Organizational	<div><div></div></div>
Leadership	<div><div></div></div>
Communication	<div><div></div></div>
Time Management	<div><div></div></div>

REFEREES

DR. Randima Dinalankara

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Department of Computer Engineering
Faculty of Engineering
University of Sri Jayewardenepura
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Phone : +94779850917

DR. Udaya Wijenayake

Senior Lecturer
Department of Computer Engineering
Faculty of Engineering
University of Sri Jayewardenepura
Email : udayaw@sjp.ac.lk
Phone : +94764655928

EDUCATION

- University of Sri Jayewardenepura, Faculty of Engineering**
Bachelor of Science in Computer Engineering
Nov 2016 - April 2021 *undergraduate

- Java Institute for Advanced Technology, Sri Lanka
Certified Java Standalone Application Developer
Dec 2011 - Nov 2012

- Poramadulla National School, Rikillagaskada
G.C.E A/L - 2015
Physics A | Chemistry B | Combined Maths C
District Rank - 18

G.C.E O/L - 2011
9 Distinctions (A)

TECHNICAL KNOWLEDGE AND SKILLS

Languages

C/C++ | Java | Python | PHP | HTML | CSS | Flask | JavaScript | R |
Octave | Matlab | JSON | GO | Visual Basic

Tools and Technologies

NetBeans | Arduino | NodeMCU | Blynk Cloud | PyCharm | PHPStorm |
MySQL | Jupyter Notebook | Microsoft Azure Machine Learning Studio |
Scikit-Learn | Tensorflow | Keras | Google Cloud Platform | Dash |
Visual Studio | Android Studio | Linux | Ubuntu | UML

PROJECTS

CONCEPTS

Internet of Things
Machine Learning
Embedded Systems
Object Oriented Programming
Data Structures and Algorithms
Data Mining
Software Quality Assurance
Networking & Security

PROFESSIONAL AFFILIATIONS

Student Member(since 2017)
Institute of Electrical and
Electronic Engineers (IEEE)

Student Member(since 2017)
Institute of Engineers Sri Lanka
(IESL)

Member(since 2016)
Internet Society of Sri Lanka
(ISOC-SL)

Smart Water Buddy - IoT based Intelligent Domestic Water Management System (Aug 2019)

Implemented a Water management system employing Unsupervised Machine Learning and IoT enabled to detect water usage anomalies.
Used Technologies : NodeMCU | Python |Scikit-learn | Flask| Dash | CSS | HTML5 | PHP | Json | MySQL | Apache Server | XAMP server | Twilio

EagleEye Military Training Simulator (April 2019)

Implemented a Training Simulator with Machine Learning to classify training soldiers by using EEG data and firing accuracy and speed.
Used Technologies : Arduino Mega | Python | Scikit-learn | Flask| Dash | CSS | HTML5 | VueJS | Json , MySQL | Apache Server | XAMP server

New York City Taxi Fare Prediction Web Application (June 2019)

Web Application for New York Taxi Fare Prediction by employing Data Mining and Machine Learning
Used Technologies : Python | Scikit-learn | Pandas| Dash | Flask | CSS | HTML5 | ReactJS

TV Series Extension Recommendation System (Dec 2019)

Implemented a system to recommend the next extension of TV series by analyzing Twitter data and IMDB data with Natural Language Processing and Data Mining techniques
Used Technologies : Python | spaCy | NLTK | Scikit-learn | Selenium

Traffic Fine Management System (May 2019)

Web Based System automated the issuing of Traffic Fine Tickets with Traffic violation data Analysis functions. Used Technologies : PHP| Laraval | MySQL | HTML5 | CSS | Bootstrap

Low Cost Weather Station (Oct 2018)

Designed and developed highly calibrated low cost sensors and build Arduino based IoT Weather station . Used Technologies : Arduino Mega | C/C++ | Blynk Cloud | SIM900 GSM GPRS Shield

Smart Home Water Management System (Sep 2017)

Embedded Systems with IoT to automated water taps and Water Pumps .
Used Technologies : NodeMCU | C/C++ | Blynk Cloud | 555-IC

Students Information Management System of Poramadulla National School (2012-2016)

Developed Management Information System of Poranadulla National School.
Used Technologies : Java SE | MySQL | Jasper

Transport Management System of National Institute of Fundamental Studies (2016)

Developed Management Information System of Transport unit of NIFS
Used Technologies : Java SE | MySQL | Jasper

Scientific Graph Reader (March 2016)

Desktop app to read data point values of Scientific graphs
Used Technologies : C# , Visual Studio 2012

TXTEncryptorDecryptor (2014)

Desktop app for text encryption and decryption
Used Technologies : Java SE , Java Cryptography API

RESEARCH PUBLICATIONS

Herath H.M.M.I.S.B

Dec 2019

IEEE International Conference on
Advancements in Computing (ICAC) 2019

“Smart Water Buddy: IoT Based Intelligent Domestic
Water Management System”

IEEEExtreme Student Ambassador (Jan 2018 - Nov 2018)

IEEE STUDENT BRANCH OF UNIVERSITY OF SRI JAYEWARDENEPURA

served as the Chair of inaugural IEEEExtreme competitive programming competition organizing committee which was organized collaboration with the IEEE Open University of Sri Lanka Student Branch (IEEE OUSL SB) and worked as the liaison between IEEE Student Branches and IEEEExtreme

Co-Founder / Senior Member (2017 - Present)

IEEE STUDENT BRANCH OF UNIVERSITY OF SRI JAYEWARDENEPURA

Established the IEEE Student branch at Faculty of Engineering, University of Sri Jayewardenpura and took necessary steps to lay a solid foundation for sustainable growth of the student branch

Editor (Feb 2017 - April 2018)

IESL STUDENT CHAPTER OF UNIVERSITY OF SRI JAYEWARDENEPURA

served as organizing committee member in IESL DAY 2017 and served as Design team member in IESL TECHNO 2017 Exhibition .

Co-Chair(Dec 2018 - March 2019)

GOOGLE HASH CODE 2019 | FACULTY OF ENGINEERING USJP

served as the Chair of inaugural Google HashCode competitive programming competition organizing committee at Faculty of Engineering ,USJP

Coordinator- Committee of Computer Engineering (Jan 2018 - Present)

ENGINEERING STUDENT UNION OF UNIVERSITY OF SRI JAYEWARDENEPURA

coordinate and organize Co-curricular activities related to Computer Engineering with University Administration , Industries and Professional organizations .

Vice President-Education (1ST Level Committee) (2017 - 2018)

GAVEL CLUB OF UNIVERSITY OF SRI JAYEWARDENEPURA

Done awareness programs , Inductions about Gavel Club in university to improve the public speaking ability among university undergraduates

Team Member (2017 - 2018)

AIIESEC JLC - UNIVERSITY OF SRI JAYEWARDENEPURA

Worked as liaison for Foreign volunteers and AIIESEC JLC and done Documentations ,Online Marketing about Volunteering with AIIESEC JLC

Volunteer Mathematics Teacher (2017 - Present)

SIPSAYURA O/L SEMINAR BY ENGINEERING STUDENT UNION USJP

Founder/ President (2011 - 2014)

ICT SOCIETY OF PORAMADULLA NATIONAL SCHOOL

Established the Society and created a talent pool of students to groom future leaders of ICT society by improving ICT skills and awareness among the School community.

Air Cadet(SNCO) (2012 - 2014)

Air Wing - NATIONAL CADET CROPS

Founding member of the Air cadets Platoon of Poramadulla Nation School and held the rank of Senior Non-Commission officer and worked as Chief Instructor for Military Studies and Student Coordinator.

Senior Sergeant (2008 - 2014)

ST JOHN AMBULANCE PORAMADULLA NATIONAL SCHOOL

Joined as a junior cadet and become Senior Sergeant which is the highest ranking position . Organized and Coordinated Charities , Blood Donations and First Aid Services

Senior Prefect (2011 - 2014)

PORAMADULLA NATIONAL SCHOOL

served as the ICT Coordinator of Senior Prefect Board

AWARDS & ACHIEVEMENTS

1st Runner Up (Oct 2019)

Techno - SL IoT challenge | The Institute of Engineers , Sri Lanka (IESL)

Silver Award (Aug 2019)

BEST EMPLOYABILITY SKILLS ACHIEVER (Faculty of Engineering)
J'pura Employability Skills Awards - 2019 | University of Sri Jayewardenepura

Special Merit Award (June 2019)

IICE COMPETITION

The Innovation, Invention and Venture Creation Council (IIVCC)
University of Sri Jayewardenepura

Google HashCode Programming Competition (March 2019)

Team_WildHunters | Country Rank : 7 | University Rank: 1

14th Place - ACES Coders v6.0 (Nov 2018)

INTER UNIVERSITY COMPETITIVE PROGRAMMING COMPETITION
Faculty of Engineering , University of Peradeniya

IEEEXtreme v12.0 (Oct 2018)

Team_WildHunters

World Rank: 1283 | Country Rank: 114 | University(USJP) Rank: 4

Gold Medal (April 2018)

OPEN SCIENCE CIRCLE QUIZ COMPETITION
National Institute of Fundamental Studies

1st Place (Oct 2017)

INTER-FACULTY C++ GAMING HACKERTHON
Faculty of Engineering, University of Sri Jayewardenepura

2nd Place (Jun 2016)

KNADY IT/BPM WEEK ICT INNOVATION COMPETITION
SLASSCOM and ICTA-Sri Lanka

1st Place (Central Province) (Oct 2015)

YOUNG COMPUTER SCIENTIST COMPETITION(YCS) 2015
Sri Lanka Association for the Software Industry (SLASI)

1st Place (Central Province) (Oct 2014)

YOUNG COMPUTER SCIENTIST COMPETITION(YCS) 2014
Sri Lanka Association for the Software Industry (SLASI)

Merit Award (Dec 2013)

YOUNG COMPUTER SCIENTIST COMPETITION(YCS) 2013
Sri Lanka Association for the Software Industry (SLASI)

Merit Award (Oct 2011)

NATIONAL SCHOOL SOFTWARE COMPETITION 2011
Ministry of Education - Sri Lanka

Top Five (June 2011)

DFCC MINDSTAR QUIZ REALITY TV PROGRAMME
DFCC Bank

DECLARATION

I hereby declare that the all above written information is true and correct to the best of my knowledge and belief.

Date

Signature



github.com/isurusachitha



facebook.com/isurusachitha



twitter.com/IsuruSachitha



linkedin.com/in/isurusachitha