

CURRICULUM VITAE

PERSONAL INFORMATION

Name : Sirikkaththuge Choolangika Mihiri De Silva Sirisuriya
Sex : Female
Marital Status : Married
Address : No 184, Uyana Road, Lunawa, Moratuwa.
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Date of Birth : 29th March 1979
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EDUCATIONAL QUALIFICATIONS

- **Master of Philosophy Degree, 2019**
Field of Study: Computer Science
Department: Department of Information Technology, Faculty of Information Technology, University of Moratuwa
Research Title: Automated Pedagogical Expert for Evaluating Web based E-Learning Contents
- **Master of Computer Science Degree, March 2010**
University of Colombo School of Computing
- **B.Sc (2nd Upper) General Degree, January 2004**
University of Sri Jayewardenepura
Subjects: Mathematics, Statistics & Computer Science
- **GCE A/L, August 1998**
Physics (Credit Pass), Chemistry (Credit Pass)
Pure Mathematics (Credit Pass), Applied Mathematics (Ordinary Pass)
Visakha Vidyalaya – Colombo 04 (1991 – 1998)

- **GCE O/L, December 1995**
Science, English, Social Studies, Mathematics, Sinhala, Buddhism
Commerce and Accounts, Western Music, Optional English (All Distinctions)
Visakha Vidyalaya – Colombo 04 (1991 – 1998)

INFORMATION TECHNOLOGY RELATED EDUCATION

- **International Diploma in Computer Studies (IDCS)**
NCC Education / London Guildhall University.
This is the 1st Year of B.Sc (Hons) in Computing and Information Systems degree.
- **Diploma in Computer Studies**
IDM Ltd – Colombo
- **Java Application Development**
University of Colombo School of Computing

EMPLOYMENT RECORD

- **Senior Lecturer (Grade II)** **November 2019 to now**
Department of Computer Science, Faculty of Computing, General Sir John
Kotelawala Defence University
- **Lecturer (Probationary)** **November 2014 to November 2019**
Department of Computer Science, Faculty of Computing, General Sir John
Kotelawala Defence University
- **Computer Instructor (Permanent)** **April 2006 to November 2014**
Department of Statistics & Computer Science, Applied Science Faculty,
University of Sri Jayewardenepura
- **Computer Instructor (Temporary)** **February 2004 to December 2005**
Computer Center, University of Sri Jayewardenepura

TEACHING INTEREST

- Compilers Design
- Theory of Computing
- Operational Research
- Mobile Computing
- Independent Study

- Data Structures and Algorithms
- Object Oriented Programming
- Fundamentals of Programming

PUBLICATIONS

IEEE Indexed Conference Publications

- S.C.M.de S Sirisuriya, L. Ranathunga, S.P. Karunanayaka, N.A. Abdullah, “The Significance of Interaction and Activities Factor in Pedagogical Evaluation Process of Web Based e-Learning” Proceedings of the 13th International Conference on Computer Science & Education (ICCSE 2018), IEEE, 2018. **(Awarded Best Paper (Runners Up))**
- S.C.M.de S Sirisuriya, L. Ranathunga, S.P. Karunanayaka, N.A. Abdullah, “Calibration Checklist to use in an Automated Pedagogical Evaluation Process of Web based E-Learning” Proceedings of the 8th International Conference on Industrial and Information Systems (ICIIS 2013), IEEE, 2013.
- S.C.M.de S Sirisuriya, L. Ranathunga, S.P. Karunanayaka, N.A. Abdullah, “Can pedagogical evaluation process of web based E-Learning be automated?” Proceedings of the 8th International Conference on Computer Science & Education (ICCSE 2013), IEEE, 2013.

International Conference Proceedings

- DGBC Wijayawickrama, S.C.M.de S Sirisuriya, N. Wedasinghe, “Web-Based Application for Mothers and Midwives” Proceedings of the 13th Annual International Research Conference, General Sir John Kotelawala Defence University, (KDU IRC 2020), 2020.
- V.J. Samarasinghe, N. Wedasinghe, I.A. Wijethunga, S.C.M.de S Sirisuriya, “Sign Language Translator for Deaf and Speech Impaired People using Convolutional Neural Network” Proceedings of the 12th Annual International Research Conference, General Sir John Kotelawala Defence University, (KDU IRC 2019), 2019.
- K.U.G.N. Uththara, N. Wedasinghe, S.C.M.de S Sirisuriya, “Designing a Mobile Application for Dyslexic Children” Proceedings of the 12th Annual International

Research Conference, General Sir John Kotelawala Defence University, (KDU IRC 2019), 2019.

- S.C.M.de S Sirisuriya, L. Ranathunga, S.P. Karunanayaka, N.A. Abdullah, “The Significance of the Evaluation or Assessment Factor in the Pedagogical Evaluation Process of Web-Based e-Learning” Proceedings of the International Conference on Future of Education (FutureEDU 2018), 2018.
- S.C.M.de S Sirisuriya, L. Ranathunga, S.P. Karunanayaka, N.A. Abdullah, “An Analysis to Identify the Most Suitable Readability Formula for Sri Lankan Context: Case Study Computer Science Students” Proceedings of The International Conference on Global Education and E-Learning (GLOBED 2017), 2017.
- MS Walgama, S.C.M.de S Sirisuriya, “Conversational agent acting as a shopping assistant for e commerce sites” Proceedings of the 2nd International Conference of Information Technology Research, University of Moratuwa, Moratuwa (ICTIR 2017), 2017.
- DGJB Wimalarathne, S.C.M.de S Sirisuriya, “Deep Learning Techniques for Speech Recognition and Audio Transcription for Content Captioning” Proceedings of the International Conference on Artificial Intelligence, University of Moratuwa, Moratuwa (SLAAI 2017), 2017.
- WHMT Dinesh, S.C.M.de S Sirisuriya, “Online Collaborative Drawing Board” Proceedings of the 10th Annual International Research Conference, General Sir John Kotelawala Defence University, (KDU IRC 2017), 2017.
- RKAIK Ramanayake, S.C.M.de S Sirisuriya, “Review: Extraction Transform Load (ETL) Model for Employee Data Pre-processing and Churn Rate Prediction” Proceedings of the 10th Annual International Research Conference, General Sir John Kotelawala Defence University, (KDU IRC 2017), 2017.
- W.M.J.H. Fernando, S.C.M.de S Sirisuriya, “Online Bus Ticket Reservation System to the National Transportation Service in Sri Lanka” Proceedings of the 9th Annual International Research Conference, General Sir John Kotelawala Defence University, (KDU IRC 2016), 2016.

- C. Ekanayake, S.C.M de S Sirisuriya, “Mobile Based Solution for Harvest Selling System in Sri Lanka”, Proceedings of the 9th Annual International Research Conference, General Sir John Kotelawala Defence University, (KDU IRC 2016), 2016.
- S.C.M de S Sirisuriya, “Comparative Study on Web Scraping”, Proceedings of the 8th Annual International Research Conference, General Sir John Kotelawala Defence University, (KDU IRC 2015), 2015.
- I.Amarasinghe, S.C.M de S Sirisuriya, “Integrating Online Job Recruitment Management with Service Oriented Architecture”, Proceedings of the 4th International Conference on Advancement of Development Administration 2015 – Social Sciences and Interdisciplinary Studies (ICADA 2015 – SSIS), 2015.

Publications in Abstract form

- Sasanka Fonseka, Lashika Hettiarachchi, Punsarani Pathinayake, Niranjala Jayathilaka, S. C. M. de S Sirisuriya, “An Analysis to Identify the Usage of Social Media Networks by School Students for Effective E-Learning Strategies” Proceedings of The International Conference on Global Education and E-Learning GLOBED 2017), 2017.

Conference Proceedings

- S.C.M.de S Sirisuriya, "Mobile Phone based Emergency Help System for Sri Lanka", Proceedings of the 66th Annual Sessions of Sri Lanka Association for the Advancement Science (SLAAS), 2010.

ACADEMIC EXPERIENCE

As a Computer Science Lecturer – General Sir John Kotelawala Defence University

Faculty of Computing (2014 – Now)

- Conduct lectures for Nature Inspired Computing, Compilers Design, Independent Study, Data Structures and Algorithms, Object Oriented Programming and Fundamentals of Programming course modules for the undergraduates who are following B.Sc in Computer Science, B.Sc in Software Engineering and B.Sc in Computer Engineering degree programs.

Faculty of Engineering (2016 – Now)

- Conduct lectures for Advanced Programming, Object Oriented Programming, Data Structures and Algorithms and Basic Computer Programming and Networking course modules for the undergraduates who are following B.Sc.(Eng) in Mechatronics Engineering, B.Sc.(Eng) in Electrical & Electronic Engineering, B.Sc.(Eng) in Electronic and Telecommunication Engineering and B.Sc.(Eng) in Bio Medical Engineering degree programs.
- Conduct lectures for Course of Computer Science in Advanced Diploma in Ship System Maintenance for Royal Navy of Oman.

As a Computer Science Instructor – University of Sri Jayewardenapura

Faculty of Applied Sciences – (2006 – 2014)

- Conducted practical classes for the undergraduates who are following Computer Science as a subject and Information Communication Technology as a subject.
- Marked assignments, specially the computer programs.

Computer Centre – (2004 – 2005)

- Instructed the undergraduates in practical classes in C++, Visual Basic, Internet Programming, Prolog, Data Base Management Systems, Data Structures and Computer Graphics, Office Package.

Visiting Lecturer (Faculty of Applied Sciences) – University of Sri Jayewardenapura

- Conduct lectures and practical for the “Skills Enhancement in IT Course 2005 – 2006 – Funded by IRQUE” conducted by the Main Computer Centre of the University.
- Medical Laboratory Science (MLS) program in the Department of Medical Education & Health Science of the Faculty of Medical Science of the University.

SUPERVISION

Postgraduate - M.BA in EGovernances

- Impact of Learning Management System quality based on the student's satisfaction: with reference to Advance Level students in Colombo district (2020)
- The Relationship between Employee Motivation and Job Satisfaction among Executive Level Employees (2019)
- Mobile Based Solution for Harvest Selling System in Sri Lanka (2018)

Undergraduate - Individual Projects

- Automated Approach for Cinnamon Quills Quality Grading (2020)
- Sri Lanka Endemic Bird Identification System using Deep Learning Techniques (2020)
- Mother and Baby Care Application For Android Mobile Application (2020)
- Learning Mobile Application for Dyslexic children (2019)
- Sinhala Sign Language Translator for Deaf and Speech Impaired People Using Machine Learning (2019)
- Smart Personal Assistance for Train Ticket Reservation (Android Mobile Application) (2019)
- Subtitle Generator for Audio and Video files (2017)
- Sri Lankan medicinal plant identification system using convolutional Neural Networks (2017)
- A conversational agent acting as a shopping assistant for e-commerce sites (2017)
- Human resource automation using biometrics (2017)
- Generalized grocery management system (2017)
- Distributed POS system for loosely coupled data sharing and transaction processing (2017)
- ETL model for management and prediction of employee data (2017)
- Online Bus Ticket Reservation System (2016)
- Online Collaborative Drawing Board (2016)
- Framework for Vehicle Service Station (2016)
- Taxi Driver Vehicle Tracking System Using Mobile GPS (2016)
- Online Job Recruitment Management System with the Aid of Service Oriented Architecture (2015)
- Online Patient Information Management System for a Medical Center (2015)
- Quick Time Mayura Bakery Manufacturing and Ordering Industry Solution (2015)
- Online House Building System (2015)

Undergraduate - Group Projects

- Exam Duty Management System (2019)
- A system to check the location of a book from a library using QR code (2017)
- KDU Mess Management System (2016)
- Sports Management System (2016)

- Police Management for Effective Crime Prevention in Sri Lanka (2015)
- Online Greeting Card Designing Tool (2015)

EXAMINER FOR DESSERTATION

Postgraduate - M.BA in EGovernances

- Challenging Factors to Enhance Digital Forensic Investigations: Sri Lanka Police (2019)
- The Readiness of E Government Systems and their Security in Maldives (2019)
- Challenges on Adopting E-Governance Concepts in Sri Lanka Army (2017)

ADMINISTRATIVE WORKS

General Sir John Kotelawala Defence University

- Working as a 4th Year coordinator of B.Sc in Computer Science degree program, Student feedback coordinator, Peer Observation coordinator and Examination coordinator.
- Worked as a Faculty Coordinator for KDU IRC 2019.
- Served as a reviewer for KDU IRC 2017 and 2018.
- Working as the evaluator for KDU CODEFEST Code Competitions since 2016.
- Worked in several committees to organize the Computing Technical Sessions at the KDU International Research Conference since 2015.
- Setting and Moderating papers for Officer Quality Tests and Selection tests for Civil Candidates of (CS/SE/CE) Degree Programs.

University of Sri Jayewardenapura

- Designed, developed and implemented a system to handle the payments of examination of Department of Computer Science. This system can easily be extended for any department of the university with minor modifications.
- Developed a system to print the transcript of the final year students of our faculty. This system is currently used by examination branch of the university.
- Jointly developed a system to handle the student data, based on results of the students in our faculty.
- Conducted a four-hour workshop on “Preparation of program documentation – using Microsoft Word” for first year undergraduates

- Participated for the role based training on Student Information System (SIS) module of Higher Education Management Information System (HEMIS)

MEMBERSHIPS

- 2018 – Present Member Computer Society of Sri Lanka(CSSL)
- 2016 – Present Member Institute of Electrical and Electronics Engineers(IEEE)
- 2010 – Present Life Member Sri Lanka Association for Advancement of Science (SLAAS)

AWARDS

- **Best Paper (Runners Up) Award**, 13th International Conference on Computer Science & Education (ICCSE), 2018.

REFEREES

Prof. RGN Meegama

Senior Lecturer

Department of Computer Science,

Faculty of Applied Sciences,

University of Sri Jayewardenepura,

Gangodowila, Nugegoda.

Tel No : 011 275 8912

Dr. Lochandaka Ranathunga

Senior Lecturer

Department of Information Technology,

Faculty of Information Technology,

University of Moratuwa,

Katubedda, Moratuwa.

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