Curriculum Vitae

Objective

I am a Research Engineer, Software Engineer and a Lecturer. Currently I am working as a Research Engineer in Tomsk, Polytechnic University, Department of Software Engineering, Institute of Cybernetics. I have experienced in both industry and academic, as a Software Engineer in Virtusa (Pvt) Ltd Company and Lecturer in Sri Lanka Institute of Information Technology (SLIIT). I have experienced as a team worker and I am flexible, dynamic and ability to work hard to achieve desired targets. I conduct individual & Group Researches and supervise Undergraduate research projects. I have rapid capability of adapting to newly evolving technologies and practically apply them to fulfill the business achievements. My qualifications and experience are as below.

Educational Qualifications

> **MSc Degree** in Enterprise Application Development (1st class)
> Sheffield Hallam University, UK (2012 ~ 2014)

> **BSc Special Hons Degree** in Information Technology
> Sri Lanka Institute of Information Technology (Oct, 05 ~ Feb, 10)

> **BSc Degree** in Information Technology
> Curtin University of Technology, Australia (Oct, 05 ~ Feb, 08)

Honors & Awards

Graduated in MSc (EAD) with distinction (1st class) and won (Batch Top) best performer award in 2014 cohort 6 batch.

Designations and Responsibilities

> **Research Engineer** from 1st of March 2017
> - Conduct Research in area of 5G wireless Technology Non-Orthogonal Multiple Access (NOMA)

> **Lecturer** in Sri Lanka Institute of Information Technology (April, 2015 ~ March 2017)
> - **Lecturer-in-charge** for Modern Topics in IT module (Final year under graduate Programs)
> - **Lecturer-in-charge** for Case Studies in Software Design module (3rd year Sheffield Hallam University foreign degree program
> - **Lecturer-in-charge** for Software Architecture module (3rd year Sheffield Hallam University foreign degree program
> - **Lecturer** in Software Engineering Project module.

> **Assistant Lecturer** in Sri Lanka Institute of Information Technology (October, 2014 ~ April, 2015)

> **Software Engineer** in Virtusa (Pvt) Ltd (March, 2010 ~ October, 2014)
> - WSO2 ESB Connector Project (in WSO2) – Engineer Technology
> - New York Life P360 WS2-Billing (in USA) – Engineer Technology
> - Adobe CQ ECM practice at Virtusa (in UK) – Engineer Technology
> - Martin Dawes System (MDS Bill Analyzer System) Project at Virtusa (in UK) – Engineer Technology
> - British Telecom Projects at Virtusa (in UK) – Engineer Technology

Professional Qualifications

> Oracle certified Professional Java Programmer (OCPJP)
> ISO 27001 certified, Intellectual Property(IP), Global Innovative Processes(GIP) certified and completed Role based Training (RBT) exams In Virtusa

Publications

1) D. I. De Silva, **S. A. U. S. Samaratunge**, K. Srirankan, Intelligent Document Writer (iDocWriter), International Conference on Computational Techniques in Information and Communication Technologies (ICCTICT), New Delhi, India, March 11 – 13, 2016, pp.49-52.

2) Bandara I.M.H.J, Dahanayake N.B.A, **Samaratunge S.A.U.S.**, Karunanayake C.A, Jayasinghe J.A.C.N, Kodagoda N, Semantic Knowledge Transfer Agent, .Proc. Fifth SLIIT Research Symposium (PSRS) December 2009, pp. 21-24

3) K.S. Amaraweera, K.M.C.B Kendaragama, W.B.U. Dayananda, K.D.K. Shamantha, **U. Samaratunge**, SMART INTELLIGENT EXPERT SYSTEM TO TROUBLESHOOT ORA-ERRORS,2nd Asia Pacific Conference on Contemporary Research (APCCR) October 2016,pp.187-202

4) T.G.I. Bingun, C.M. Palliyaguru, V.M.P. Godakandage, K.K.A.W. Madhubhashana**, S.A.U.S. Samaratunge**, T.D. Perera, IGUIDE – INTELLIGENT TOUR GUIDING SYSTEM, 2nd Asia Pacific Conference on Contemporary Research (APCCR) October 2016,pp.208-218

5) U.S.M. Perera, D.J.M. Ganegoda, M.B.M. Fazmy, P.R. Wijenayake, **U.Samaratunge**, Human Emotional and Rational Mind Analytical Tool For Wise Mind Establishment Process, 22nd Annual Conference of IET Sri Lanka Network 2015, pp.38-45, ISSN 2345-9557

6) A.D. Hapuarachchi, R.N.N. Fernando, T.J. Chathurangi, J.K. Edirisinghe, K.Pulasinghe, **U.Samaratunge**, Inward Patient Care System, National Council of Teachers of Mathematics (NCTM) April 2016, pp.33-37, ISSN 1800-3591

7) S.D.D. Amarathunga, P.P.A.S. Jayasundara, E.G.P.P. Somaweera, P.D.C. Weerasena, K. Pulasinghe, **S.A.U.S. Samarathunga**, "Picture Archiving and Communications System (PACS) for Government Hospitals in Sri Lanka", eHealth Asia 2015, Colombo, Sri Lanka, October 2015

Papers submitted for Review

1. **Udara Srimath S. Samaratunge Arachchillage et al.** Recent Advances & Future Research Challenges in Non-Orthogonal Multiple Access for 5G Networks, IEEE 14th International Symposium on Wireless Communication Systems (ISWCS), August, 2017.

Research Interest

➢ Non-orthogonal Multiple Access (NOMA)
➢ Simultaneous Wireless And Power Transfer (SWIPT)

Memberships & Certifications

➢ Member in Computer Society of Sri Lanka (CSSL)
➢ Adviser in Free Open Source Software Community (FOSS) in SLIIT
➢ Certificate in Hardware Engineering
Lanka Training College for computer & Information
➢ Certificate in Computer Programming Basic Level TEC Sri Lanka

Conducted Training Sessions

➢ Conducted outbound mobility program for Post-graduate students in Deakin University of Australia during (in 2016)
➢ Conducted Training session for SLIIT Staff regarding Augmented/Virtual Reality

Undergraduate Research Projects supervision

In 2015
➢ Smart Intelligent Expert to ORA-ERROR Troubleshooting System
➢ Smart UX Enhance Agent
➢ Intelligent Tour Guide system
➢ Smart Psychiatrist Assistants Agent
➢ Water Purify Pattern Recognizer

➢ Marker-less Augmented Reality Furniture Interactive Lay outing

In 2016
➢ Human Emotional and Rational Mind Analytical Scientific Tool for Wise Mind Establishment Process with Efficiently Managed Satisfactory Factors
➢ Picture Archiving and Communication System (PACS) for government hospitals in Sri Lanka
➢ Electronic Bed-Head ticket for Inward Patient Care System
➢ Intelligent document writing using speech recognition
➢ Virtual Shopping cart system
➢ Predict Sri Lanka Non-communicable diseases and mouth cancer diagnosis system

General Information

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