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OBJECTIVE

Apply the academic and industrial experiences in being a valued entrepreneur that recognizes new developments in technology and anticipates trends in order to offer clients the latest available information technology services.

EDUCATION

- M.A. Operations Research, University of Montana, U.S.A (May 1999)
- B.A. Mathematics and Computer Engineering, University of Maine, U.S.A (May 1995)

WORK EXPERIENCES

LIRNEasia (www.lirneasia.net), Sri Lanka, (Dec. 2005 – now)

- Senior Researcher/Project Director Evaluating a Real-Time Biosurveillance Program: A Pilot Project – designed ICT system, wrote research proposal, obtained grant from IDRC, and work is in progress
- Project Manager Evaluating Last-Mile Hazard Information Dissemination, Research Project – planning of activities, managing a USD 0.5 million budget, managing 8 partners, and conducting field test of wireless ICT for early warnings in Sri Lanka (Sarvodaya, Sri Lanka)

Spot On Solutions (Private) Limited (www.spotonsolutions.net), Sri Lanka, (Apr. 2006 – now)

- OR Analyst Communicating Hurricane Warnings – provided conceptual design of a Multi-language Common Alerting Protocol (CAP) Message Broker for a National Science Foundation (<http://www.nsf.gov/pubs/2008/nsf08551/nsf08551.htm>), USA, research proposal to conduct an evidence based assessment of the use of a social networking based software tool to be pilot tested in USA and Sri Lanka (customers: Lanka Software Foundation, Sri Lanka and University of Maryland, USA)
- OR Analyst Evaluating Last-Mile Hazard Information Dissemination, Research Project – setup the evaluation instruments for quantitative and qualitative assessment of the end-to-end system; wrote a comprehensive report on the outcomes of the research, a copy can be found here - <http://www.lirneasia.net/wp-content/uploads/2008/05/hazinfo-technical-report.pdf> (customers: LIRNEasia and Sarvodaya, Sri Lanka)
- Systems Designer/Researcher Real Time Biosurveillance and Alerting System – spent over 6 months designing the system based on mobile phone technology and statistical data mining algorithms, established a set of project partners to supply the technology and carryout the pilot, wrote a research proposal for funding to conduct a pilot in both India and Sri Lanka, and proposal received approval for funding by the International Development Research Center (IDRC) of Canada (customers: LIRNEasia, Sri Lanka and Indian Institute of Technology, India)
- Consultant Sahana Short Message Service Alert and Notification free and open source software application – reviewed proposal, software requirement specifications, and demo product, application is being developed for the Disaster Management Center of Sri Lanka (customers: LIRNEasia)
- Consultant Sahan Disaster Management System free and open source software (<http://www.sahana.lk>) – advise on system requirements, and recommending test beds (Lanka Software Foundation, Sri Lanka)
- OR Analyst/Software Architect Service Plan Optimization software tool – over 3 years designed the system, developed a .Net C# wrapper for a series of free and open source software for manufacturing process planning (General Woodcraft Private Limited, Sri Lanka)
- Director Spot On Solutions – started the company on the strategy of developing affordable and sustainable process planning software solutions for small and medium enterprises with information communication technology solutions

Community Focused Disaster Response (www.cfdrkomari.com), Sri Lanka, (Jan. 2005 – April 2005)

- Founding Member - post tsunami disaster recovery and mitigation organization CFDR Komari 2004
- OR/Business Analyst Risk Management Program, Information Communication Technology Program, Water and Sanitation Program (Komari, Ampara District, Sri Lanka)

Infocraft Limited (www.infocraft.lk), Sri Lanka, (Aug. 2002 – Jan. 2005)

- Senior Manager IT infrastructure technical assistance and consultancy projects – key role in starting the company, recruiting resources, setting up company business strategy, establish IBM iSeries Business Partnership, establish IBM Software Reseller Partnership, floated the Web engineering and encoding division, floated the Software Products Engineering and Encoding Division
- Systems Engineering for Business Continuity and Disaster Recovery Program – conducted a vulnerability assessment of Communications and Information Processing Systems, developed a technical/financial proposal to build a BC/DR strategy for the Hayleys Group of Companies, Sri Lanka
- Software design/development of Enterprise Resource Planning Integrated Computer System (Haycarb, Sri Lanka), Project Daily Journal to forecast resource allocation and project profitability (Infocraft, Sri Lanka)
- OR/Business Analyst – designed, proposed and bid for Sales force automation system (Suryawahini, Sri Lanka), Check imaging and clearing system (Lanka Clear, Sri Lanka), Regional Telecommunication Network (ICTA, Sri Lanka), Coconut charcoal activation process simulation (Haycarb Limited, Sri Lanka), Algorithm for Resource Planning and Simulating (Haycarb Limited, Sri Lanka), Corporate Enterprise Resource Planning (Hayleys Limited, Sri Lanka).

Sri Lanka Institute of Information Technology (www.sliit.lk), Sri Lanka, (Dec. 2001 – July 2002)

- Business Analyst IT master plan – lead the five member team in developing the IT Master Plan for the activated carbon manufacturing Haycarb Limited, Sri Lanka

American Psyche Systems (APS) Healthcare (www.apshealthcare.com), U.S.A, (May 2000 - Nov. 2001)

- Software Engineering Health Care Management Systems – part of the 7 member team that designed, developed, and implemented databases, user interfaces, and reports; managed outsourcing of software development to TATA Consultants in India supported the Behavioral health manage care Information Reporting Integrated System, Clinical Care Management information System, Credentialing software application, HIPAA transaction database third party interfaces

Department of Mathematical Sciences (www.math.umt.edu), University of Montana, U.S.A. (Sept. 1999 - May 2000)

- Part-time Instructor in Operations Research and Calculus

Assistant Operations Manager Montana World Trade Center (www.mwtc.umt.edu), U.S.A, (May 1998 - Dec. 1998)

- Application and Analyst Programmer – developed Educational programs, South American, and European Trade management information systems to support internal operations

PUBLICATIONS & PRESENTATIONS

Conference Proceeding:

- R. Samarajiva and Waidyanatha N (2008, September). Two complementary technologies for disaster risk reduction through warning, proceedings EURO mGov 3rd International conference and Exhibition, Antalya, Turkey.
- N. Waidyanatha (2008 April). Community-based Hazard Warnings in Sri Lanka: Performance of the Last-Mile Link, Proceedings ICEEDM Earthquake Disaster Risk Reduction: Engineering Challenges after Recent Disasters, Jakarta, Indonesia (Published)
- N. Waidyanatha (2007 December). Last-Mile Hazard Warning System in Sri Lanka: Performance of the ICT First Responder Training Regime, CPRsouth ‘empowering Rural Communities through ICT policy and research’ conference, Chennai, India. Web copy – <http://www.cprsouth.org/dspace/handle/123456789/237>
- N. Waidyanatha, S. Ranagarajan, G. Gow, P. Anderson (2007 December). Last-Mile Hazard Warning System in Sri Lanka: Performance of the WorldSpace Addressable Radios for Emergency Alerts, Proceedings of the IEEE 10th International Wireless Personal Multimedia Communications, Jaipur, India, Pages 233-237
- N. Waidyanatha, D. Dias, H. Purasinghe (2007 November). Challenges of Optimizing Common Alerting Protocol for SMS based GSM devices in Last-Mile Hazard Warning System in Sri Lanka, Proceedings 19th Meeting of the Wireless World Research Forum, Chennai, India, <http://www.lirneasia.net/wp-content/uploads/2007/11/challenges-of-optimizing-cap-on-sms-over-gsm-in-sri-lanka.pdf>
- G. Gow, N. Waidyanatha, P. Anderson (2007 October). Community-based Hazard Warnings in Rural Sri Lanka: Performance of Alerting and Notification in a Last-Mile Message Relay, Proceedings IEEE 1st International WRECOM2007 Conference and Exhibition, Rome, Italy. (Published)
- N. Waidyanatha, G. Gow, P. Anderson (2007 August). “Common Alerting Protocol Message Broker for Last-Mile Hazard Warnings in Sri Lanka: An Essential Component”. Proceedings of the 2nd International ISCRAM Workshop, Harbin, China, Pages 59 - 65

- N. Waidyanatha, G. Gow, P. Anderson (May 2007). Hazard Warnings in Sri Lanka: Challenges of Internetworking with Common Alerting Protocol, Proceedings ISCRAM2007, Pages 281-293. Paper can be found here -- http://www.iscram.org/dmdocuments/ISCRAM2007/Proceedings/Pages_281_293_40DSM_07_A_Hazard.pdf
- N. Waidyanatha (working paper) Module approach to selecting reliable resources for process-manufacturing in fluctuating market trends, University of Kelaniya, Sri Lanka
- N. Waidyanatha (1999 April). Circuit covering of representable matroids, Proceedings Montana Science Foundation, Butte, U.S.A
- N. Waidyanatha (1999 November) Circuit double covers of matroids in irrigation works, Proceedings Colloquium University of Montana, Missoula, U.S.A

White papers:

- N. Waidyanatha (2004, August). FIPA contract net protocol agent based system for engineering BPM, Spot On Solutions, Sri Lanka.
- N. Waidyanatha (2004, March). A fuzzy inference methodology for selecting reliable resources in shop floor domains, InfoCraft Limited, Sri Lanka.
- N. Waidyanatha (203, May) Production system knowledge base implementation in Simple Hierarchical Ordered Planer 2, InfoCraft Limited, Sri Lanka.
- A. Gunatilake, I. Aluthweediya, N. Waidyanatha (2003, January) Initiating e-Transformation by first owning an effective website, Hayleys Limited, Sri Lanka.

Presentations:

- Sharing Knowledge on Disaster Warning Community-based Last-Mile Warning System, Indonesian Institute of Disaster Preparedness, Jakarta, Indonesia, January 2008
- Sharing Knowledge on Disaster Warning: Community-based Last-Mile Warning System, India Habitat Center, All India Disaster Mitigation Institute, Delhi, India, November 2007 (<http://www.lirneasia.net/2007/11/second-hazinfo-dissemination-workshop-held-in-india/>)
- Sharing Knowledge on Disaster Warning: Community-based Last-Mile Warning System, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh, October 2007 (<http://www.lirneasia.net/2007/10/hazinfo-dissemination-workshop-in-bangladesh-on-october-25th/>)
- Last-Mile Hazard Warnings System in Sri Lanka” and “Challenges of Implementing the Common Alerting Protocol in Sri Lanka, International Telecommunications Union, League of Arab Nations, Alexandria, Egypt, April 2007 (<http://www.itu.int/ITU-D/emergencytelecoms/events/Alexandriaconference/alexpresentations.html>)
- Last-Mile Hazard Warning Dissemination: A Research Project, International Federation of Red Cross and Red Crescent Societies Technical Meeting on Emergency Communications, Sri Lanka Red Cross Society, Colombo, Sri Lanka, December 2006 (<http://www.redcross.lk>)
- Contribution of Sarvodaya towards Coastal Communities Resilience: Common Alerting Protocol Message Relay, Coastal Community Resilience Institute, USAID, Colombo, Sri Lanka, October 2006 (<http://www.adpc.net/v2007/Programs/EWS/UPDATES/2006/OCT-DEC/OCT-DEC2006.asp>)
- Common Alerting Message Relay: Sarvodaya Hazard Information Hub, Using ICTs for effective Disaster Management Forum, Commonwealth telecommunications Organization, Ahunglle, Sri Lanka, June 2006 (<http://www.events.cto.int/default.aspx?event=dmasia06>)
- Presentation - “Last-Mile Hazard Warning System Sarvodaya/LIRNEasia Project”, ITU-TRC Workshop on Emergency Telecommunications for Disaster, Colombo, Sri Lanka, March 2006 http://www.itu.int/ITU-D/asp/Events/EmergencyTelecomWorkshops/SriLanka_Workshop/Administration/Participant%20List%20ITU%20Workshop.pdf

ON LINE CONSULTATIONS AND DISCUSSION GROUPS
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- W3C Incubator, Emergency Information Interoperability Framework Incubator Group - <http://www.w3.org/2005/Incubator/eif/charter-20071203>
- OPENROSA, consortium formed to create open source, standards-based tools for mobile data collection, aggregation, analysis, and reporting - <http://www.openrosa.org/>
- AED Satelife, Healthnet global discussion group, center for health information and technology - <http://www.healthnet.org/>
- HazInfo, Google group - <http://groups.google.com/group/hazinfo>
- Biosurveillance 2.0, Google group - <http://groups.google.com/group/biosurveillance>
- Sahana disaster management free and open source software framework – <http://www.sahana.lk>

TECHNICAL EXPERIENCES

Operating Systems: Windows, Mac OS, VAX/VMS, MS DOS, Linux, Unix, OS400, iOS
Programming Languages: Fortran, Paradox, Pascal, C, C++, C#, VB, Java, MS SQL, MySQL, Oracle, DB2, LISP
Developer Tools: MS Visual Studio .NET, Visual Studio 6.0, Oracle Developer 2000, J2SE, JADE 1.0, LispWorks 4.2, SQL Enterprise, Oracle 8.0, Extend 6.0, Paradox 7.0
Processors: Intel x86, Motorola 6800, SPARC
Technologies: .NET, FIPA, PKI X509, Wi-Fi, TCP/IP
Open Source: SHOP, JADE, Mono, GanttProject,

Capabilities

Expertise are in ICT system design, consultation and actionable research working collaboratively with multiple national and international partners applying the academic and industrial experience in being a valued entrepreneur recognizing new developments in technology and anticipating trends.

Innovative developer with more than eight years of expertise in delivering technical strategies and managing information technology systems solutions, software application development, project management and end-user training. Committed to staying current on innovations in information communication technology and inventions in computer science

Emphasis on research and development work, project management, supervision, training and quality control, continuous improvements process planning. Have extensive background in the full project development life cycle from the initial concept through final delivery and ongoing support. Rapidly achieve organizational integration, assimilate job requirements and employ new ideas, concepts, methods and technologies.

Comprehensive technology experience in relational data analysis, database design, object-oriented software engineering, agent based systems engineering, software application development, Internet development, client-server infrastructure, software project management, business analysis, requirements gathering, application integration, application customisation, and test engineering. These experiences of developing products are both internationally and nationally.

Personality geared to be an energetic and self-motivated team player with excellent communication, interpersonal, spontaneous, and leadership skills. Work well in both independent and collaborative work environments.

ORGANIZATIONS AND MEMBERSHIP

Member, American Mathematical Society, U.S.A
Member, Institute of Electrical and Electronic Engineers, U.S.A
Disk Jockey, Campus Radio – KBGA 89.9 FM, University of Montana, U.S.A
President, International Student Association, University of Maine, U.S.A
Senator, Student Government, University of Montana, U.S.A
Member, Presidential Board in Student Academic Affairs, University of Montana, U.S.A
Member, Student-Staff-Faculty Breakfast Club, University of Montana, U.S.A
Vice President, Natural History Society, S. Thomas' College, Sri Lanka

SPORTS

Rugby, University of Montana, U.S.A	Volleyball, S. Thomas' College, Sri Lanka
Rugby, University of Maine, U.S.A	Table Tennis, Birkache Junior League, Stuttgart, Germany
Basketball, S. Thomas' College, Sri Lanka	Swimming, S. Thomas' College, Sri Lanka
Cricket, S. Thomas' College, Sri Lanka	

REFERENCE

M. M. M. De Silva, Managing Director, Hayleys Industrial Solutions, fully owned subsidiary of Hayleys Limited, 25 Foster Lane, Sri Lanka, +94 112 699 100	M. N. Jayantha Jayaratna, CEO – GM, Xperts Limited, fully owned subsidiary of Commercial Bank, 1 Union Place, Sri Lanka, +94 114 740 178
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