

Rukmal Fernando

Cell: 857-445-9193

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28 Oakland Avenue, Everett, MA 02149

E-mail: rukmal@ccs.neu.edu, rukmal@gmail.com

<http://www.ccs.neu.edu/home/rukmal/>

EDUCATION

Northeastern University, Boston, MA

2007 Sept. – present

College of Computer and Information Science

GPA: 3.89 / 4.00

Candidate for a Master of Science in Computer Science

2009 Dec.

Related Courses: Human-Computer Interaction, Empirical Methods in Research, Machine Learning.

Thesis: Strategies for a virtual character to explain documents to users of varying literacy levels.

Informatics Institute of Technology, Sri Lanka

2001 Nov. – 2005 Sept.

Department of Computing

Bachelor of Science in Information Systems

First Class Honors, GPA: 3.78 / 4.00

Related Courses: Information Systems Management, Distributed Systems, Web Development, Data Engineering.

Project: Developed a C# / C++ prototype and a secure protocol for behavior anomaly detection.

- Won **Silver Award** for project prototype at Sri Lanka's National Best Quality Software Awards, 2005. Conferred by British Computer Society.
- Presented papers at two conferences (Sri Lanka), one **Honorable Mention** for Best Paper.

COMPUTER KNOWLEDGE

Languages: C#, .Net Framework 2.0, Visual C++, Win32 API, Java, SQL, PL/SQL, Visual Basic, UML, BNF, XML, JavaScript, Matlab, ActionScript, Scheme.

Systems: Microsoft Windows variants and GNU/Linux.

WORK EXPERIENCE

SeaChange International

Acton, MA

Software Engineering Co-op

2009 Jan. – 2009 Jun.

- Designed and developed an integrated tool for setting up QA test environments (C#, SQL Server).
- Enhanced Windows services implementing SCTE-30 and -35 specifications, and redesigned a control panel for monitoring these services (C, C#, Socket communication, Threading, IPC).

Northeastern University, Relational Agents Group

Boston, USA

Research Assistant

2007 Oct. – 2008 Dec., 2009 Sept. – present

- Maintain and develop clients and developed a Text-to-Speech Server (Visual C++, MFC, Microsoft Speech API 5.1, ActionScript, LAME codec, Socket communication).
- Designed and conducted a series of human participants experimental studies to test pedagogical and relational effects of a virtual computer character that simulates interpersonal touch.

IFS R&D International

Colombo, Sri Lanka

Software Engineer

2005 Sept. – 2007 Aug.

- Developed a context sensitive parser for PL/SQL using ANTLR.
- Implemented a solution to custom draw and apply color themes on UI controls in an external assembly file.

Informatics Institute of Technology

Colombo, Sri Lanka

Visiting Lecturer

2005 Nov. – 2007 Apr.

- Taught 3 semesters in the British undergraduate degree program: Database Systems and Programming.

Virtusa (Pvt) Ltd.

Colombo, Sri Lanka

Trainee Software Engineer (Internship)

2003 Aug. – 2004 Sept.

- Developed Web Parts for Microsoft Sharepoint Portal Server 2003, List Server moderator (GNU Mailman).

INTERESTS

- Technical writing at blog (<http://rukmal.wordpress.com>), Twitter (@rukmal), Digital SLR Photography.

References will be furnished upon request.