

Nayanapradeep Indika Ratnayake

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An Excellent Team player who enjoys team work and respects the ideas of others. Self motivated and can cope with the rapid changes in the world of Information Technology. My ultimate objective is to become an expert in the subject areas I am passionate about and apply the knowledge gained to make a commendable contribution to the field of computing as well as to the workplace.

Key areas of understanding and skills:

- System Design and Software Engineering Skills (OOP, SDLC, RAD, Agile Methodologies and Concepts etc.)
- Programming and Scripting Languages (C# - .NET framework 2.0/ 3.5, C, C++, Visual Basic, JAVA, PYTHON, PHP, HTML, XML)
- Database Design and Implementation Concepts (ER Diagrams, Normalization)
- Databases (MS SQL, MS Access, MySQL)
- CMSs (WordPress, Joomla)
- Computer Hardware and Operating System installation, maintenance and troubleshooting (up to Windows 10)
- 3D/ 2D Graphics and Animations (Autodesk Maya, Pixologic ZBrush, Next Limit Real Flow, Adobe Photoshop, Adobe After Effects, Adobe Premier, Adobe Illustrator, Adobe InDesign)
- Statistical computer applications (R)
- Basics in molecular biological techniques (DNA/ RNA extraction, Gel electrophoresis, PCR, Purification/ digestion of PCR products, RT-PCR, DNA sequencing)

Educational qualifications:

- University of Colombo School of Computing - MSc in Information Technology (MIT). (2012 - 2014)
- University College Dublin - BSc in Management Information Systems. [Second Class Honours (Grade I)] (2008-2010)
- National Institute of Business Management – Higher Diploma in Computer based Information Systems. (2007-2008)
- National Institute of Business Management –Diploma in Computer System Design. (2006-2007)
- Institute of Biochemistry Molecular Biology and Biotechnology, University of Colombo - Training course in Molecular Biological Techniques. (2014)

- Passed G.C.E (General Certificate of Education) Advanced Level in 2005 in Bio-Science stream with 2 “B” passes for Biology, Chemistry and a “C” pass for Physics
 - School- Dharmapala Vidyalaya, Pannipitiya, Sri Lanka
- Passed G.C.E Ordinary Level in 2001
 - School- Dharmapala Vidyalaya, Pannipitiya, Sri Lanka

Academic projects:

- Analysis and development of Cricket Player Management and Performance Analysis System for Coaches and Trainers at Sri Lanka Cricket (MSc thesis)
- Developed an e-commerce site using Joomla with PayPal integrated to sell match tickets for Sri Lanka Cricket (MSc project)
- Produced a [documentary video](#) about an ancient temple in Sri Lanka with a historical value as the final assignment in Multimedia Technology (MSc Assignment) and won a certificate of appreciation for this video at the e-Swabhimani National Best e-Content Awards 2014 organised by the ICTA (Information and Communication Technology Agency of Sri Lanka) and the Ministry of Telecommunication & Information Technology in Sri Lanka
- Design and implementation of a Travels Guide Application to find the shortest path using Heuristic algorithms with Microsoft Visual C# 2008 - WPF and Microsoft Expression Blend (BSc final year project)
- Design and implementation of a Library Management System using Microsoft Visual C# 2008 and Microsoft SQL Server 2005 (BSc project)
- Design and Implementation of a Sales Processing and Distribution System using Microsoft Visual C# 2005, Crystal Reports 9 and Microsoft Access Database (Higher Diploma final project)
- Designed and developed a “PCB (Printed Circuit Board) Driller” application to automatically find the drilling holes, diameters and the optimized path to start drilling. (Higher Diploma project)
- Design and Implementation of a Motor Vehicle Insurance System using Microsoft Visual C# 2005 and Microsoft SQL Server 2005 Express Edition (Higher Diploma project)
- Analysis and design of an Inventory Control System (Diploma final project)

Publications:

- Ratnayake, N. I. (2014). *Cricket Player Management and Performance Analysis System for Coaches and Trainers at Sri Lanka Cricket* (MS thesis), University of Colombo, Sri Lanka.
- Ratnayake, N. I. (2014). Weheragalla Samudragiri Viharaya in Mirissa [White paper]. In: S Rathnayake, *Smart Content for Smart People Best Practices of Sri Lankan e-Content and Applications of 2014*, Colombo: ICT Agency of Sri Lanka, pp.80-81.

Professional experience:

Systems Engineer: Viv Corporation, USA (April 2017 to Present)

As the Systems Engineer I am responsible for managing all company IT resources and technology related client projects. These include:

- Programming, testing, debugging and maintaining corporate proprietary software and company websites
- Configuring and managing company emails
- Designing and developing system requirements, databases and applications for all technology projects undertaken by Viv Corporation
- Collaborating and communicating with teams in Sri Lanka

Executive- Systems Engineering: Sri Lanka Cricket (April 2010 to April 2015)

As the Executive - Systems Engineering at Sri Lanka Cricket, I mainly handled all IT related activities and various media related work

- Developed and implemented a ticket reservation and issuing system. The system was developed using C# and it was used at the ICC (International Cricket Council) Secretariat, Sri Lanka during the ICC World Cup 2011
- Network administration and maintenance. I was responsible for managing, configuring and monitoring the networks at Sri Lanka Cricket. This includes DHCP server, Finance servers running ERP systems, Google Apps, DNS filtering, Layer 2 and 3 equipment (Routers, Switches) etc.
- Managed the project of transitioning from the in-house email system which was running Microsoft Exchange Server to Google Apps
- Design artwork and layouts for advertisements, magazines, annual reports, handbooks, souvenirs etc.
- Content management and maintenance of Sri Lanka Cricket website(www.srilankacricket.lk)
- Developed the website for Colombo Colts Cricket Club (www.colombocolts.lk). Colombo Colts Cricket Club is one of the leading cricket clubs in Sri Lanka, which has produced many National Cricketers including the current national team captain Angelo Mathews

Manager IT - ICC World T20 2012 Secretariat, Sri Lanka (July 2012 - October 2012)

During the ICC World Twenty20 2012 in Sri Lanka, I was seconded as the Manager IT in charge of Pallekele International Cricket Stadium where I was responsible for coordinating with the ICC, media broadcasters and other service providers to ensure that all requirements were met. This involved in expansion of existed networks by shifting to fiber optics in four international cricket stadia in the country.

Trainee -Asian Chill Equipment (Pvt) Ltd. Rathmalana, Sri Lanka (2009 - 2010)

During my time as a trainee at Asian Chill Equipment (Pvt) Ltd., I was responsible for the following system developments.

- Developed and implemented a Production Planning and Monitoring System
- Developed and implemented a Material Purchasing System
- Developed and implemented a Stock Control System

Networked the stores, administration office and the R&D unit to streamline the operations which improved the productivity.

Volunteer activities:

- Developed a mobile app as part of a project to provide information to growers about pesticides. The project is a joint effort by the University of Washington and the Washington State University.
- Helped setup and configure a set of iPads for a project conducted by the Community Foundation of North Central Washington and Wenatchee Museum to improve youth experience.
- Helped setup new computers and configure them at IRIS (Initiative for Rural Innovation & Stewardship) Office, Wenatchee, WA.

Other interests:

- 3D modeling and animations
- Video editing and composing (www.youtube.com/niratnayake)
- Graphic designing
- Web development
- Electronics

Extra-curricular activities and memberships:

- Member of the Computer Society of Sri Lanka (CSSL) (Member ID: 1046)
- Professional member of the Bioinformatics Organization, Inc
- Was the assistant treasurer of the Welfare Society, Sri Lanka Cricket
- Was an active member of the School Science Society and the Globe Union
- Was a member of the school Karate team

Non-related referees:

Dr. Ajantha Atukorala

Senior Lecturer

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