

# Nayanapradeep Indika Ratnayake

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An excellent team player with over 7 years of experience in application/ database development, developing technical solutions to business problems, analyzing and documenting requirements and process improvement efforts at various, cross-functional environments. Versatile and innovative, with the ability to balance changing priorities, and deliver timely results.

## 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#, Python, C, C++, Visual Basic, JAVA, PHP, HTML, XML)
- Desktop, Web and Mobile (Android) app development.
- Database Design and Implementation Concepts (ER Diagrams, Normalization)
- Databases (MS SQL, MS Access, MySQL, SQLite)
- CMSs (WordPress, Joomla)
- IT project management and tools (Agile/ Scrum, JIRA, Podio)
- Computer Hardware and Operating System installation, maintenance and troubleshooting (up to Windows 10)
- 3D/ 2D Graphics and Animations (Autodesk Maya, Pixologic ZBrush, Adobe Photoshop, Adobe After Effects, Adobe Premier, Adobe Illustrator, Adobe InDesign)
- Statistical applications (R)
- Basics in molecular biological techniques (DNA/ RNA extraction, Gel electrophoresis, PCR, Purification/ digestion of PCR products, RT-PCR, DNA sequencing)

## 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 and hosting servers
- 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](http://www.srilankacricket.lk))
- Developed the website for Colombo Colts Cricket Club ([www.colombocolts.lk](http://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.

#### **Educational qualifications:**

- MSc in Information Technology (MIT) - University of Colombo, Sri Lanka. (2012-2014)
- BSc in Management Information Systems - University College Dublin, Ireland. (2008-2010)
- Higher Diploma in Computer based Information Systems - National Institute of Business Management, Sri Lanka. (2007-2008)
- Diploma in Computer System Design - National Institute of Business Management. (2006-2007)
- Training course in Molecular Biological Techniques - Institute of Biochemistry Molecular Biology and Biotechnology, University of Colombo, Sri Lanka. (2014)

#### 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 organized 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 Lanka e-Content and Applications of 2014*, Colombo: ICT Agency of Sri Lanka, pp.80-81.

#### 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.
  - Supports both Android and IOS devices
  - Support both English and Spanish languages
  - Automatic database updates
- Developed a mobile app to count labels for Washington State University Tree Fruit Research and Extension Center.
  - Supports Android devices
  - Ability to create labels specific to lab or field environments

- OpenStreetMap for live preview of geo-location data
- Ability to create and share templates
- Ability to export and share reports
- Created animated videos for illustrating Orchard Bio-renovation and to show the importance of plant pathogens for the Washington State University. Videos were created using Adobe after Effects.
- Helped setup and configure IT equipment 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](http://www.youtube.com/niratnayake))
- Graphic designing
- Photography (<https://www.flickr.com/photos/151447594@N03/>)
- 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:

##### **Chamil Hettiarachchi**

CEO/ Founder

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