

CSSL 6 A SIDE CRICKET TOURNAMENT

7th JUNE 2015



IT vs IT

@ Bloomfield Colombo 07

**CSSL
CRICKET TOURNAMENT
2015**

*See the fun filled
movements below.....*

CSSL 6 A Side Cricket

Tournament

*successfully
concluded on
7th June 2015
@ Bloomfield
Grounds.*

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professionals
joined this fun
filled
experience
proved their
excellent
sportsmanship*





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To see a dream you need a good sleep.

But to fulfill a dream you need sleepless nights with hard work and commitment.

I'm Roshnal Lihinikadu, a 19-year-old computer aficionado who loves programming, traveling, reading, movies, and seek perfection. I currently intern at Forestpin Corporation- a startup incorporated in Florida, USA, who specializes in developing enterprise data analytics software to catch fraud & irregularities. I'm also the co-founder of Stampede (www.stmpdapps.com), where we specialize in developing innovative software solutions for consumers and companies. We will be releasing our application, "Aisle" in May. Previously I worked as a co-founder and director at AlertifyMe Inc. up until April 2014. I would like to share my success story up to now with the intention of motivating the younger generation, who's interested in selecting IT as their future career path.....

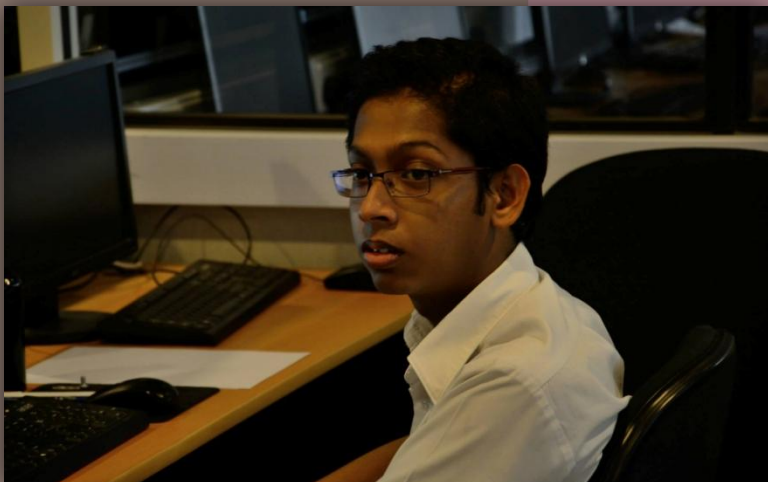


My elementary school was St. Benedict's College, Kotahena (Colombo 13). There, I got through my grade 5 scholarship exam in 2005 on a high note and with that result I joined Royal College, Colombo 07 for my higher studies. For the appreciation of my achievement in this exam my parents presented me my first computer at the age of 10.

As soon as I joined Royal College I got my first certificate in IT in 2006 (grade 6). In 2008, when I was in grade 8 I was introduced to Dr. Ishantha Siribaddana by my father at a Exhibition. When he talked with me I was able to convince him to let me enter his Java institute, as the youngest student there. That was a turning point in my life. There, I obtained my first professional qualifications: Sun Certified Java Programmer (SCJP) in 2010 and Oracle Certified Mobile Application Developer (OCMAD) in 2011 before completing my O/L examinations. I am happy to say I did my O/Ls in 2011 (6 A's) and A/Ls in 2014 (3 C's in Maths) in English medium without attending any tuition classes as I needed to save time for both my software studies/competitions and school work. In the meantime I'm an Android developer and a registered BlackBerry developer.

I was able to obtain 2nd place in the National Schools Software Competition (NSSC) conducted by Computer Society of Sri Lanka (CSSL) and the Ministry of Education in 2011, and represented Sri Lanka in the South East Asia Regional Computer Confederation (SEARCC), International School Software Competition (ISSC) held in India and obtained the 2nd place. After that I was able to secure gold awards (1st places) in 3 consecutive years (2012, 2013 and 2014) at the National Schools Software Competition. During that period I must admire the support and training which I obtained from CSSL. For the winners of 2012 NSSC event, British Computer Society (BCS) awarded a scholarship to waive off registration fees and first year examination fees, worth approximately Rs 60,000.00. I took that opportunity and I'm now in the final year of BCS which is the equivalent of a university degree level as recognized by University Grants Commission in Sri Lanka and by most other countries as well.

During my career my most memorable year was 2012. In that year two of my friends and I were able to bring honor to my motherland by becoming 2nd in the world out of more than 6000 competitors from 59 countries at Oracle Think Quest, Application Development category, conducted by the Oracle Education Foundation, USA. For that we developed a software called TED (Text Encryptor & Decryptor) which encrypts SMS messages for additional security and privacy. To felicitate that achievement, we had a fully-paid 10-day tour to San Francisco and Los Angeles, USA, along with Apple MacBooks.



In 2013 our team achieved the 1st place in IEEE CodeExpertz 1.0 conducted by University of Moratuwa. And I also became the 1st runner up in the all-island quiz competition, IT Mastermind, conducted by ESoft Metro Campus and The Computer Society of Sri Lanka. In the same year, I and one of the above mentioned friends developed the official mobile app for the Royal-Thomian cricket encounter, Battle of the Blues.

In addition to the above I represented Sri Lanka in 2013 at the International Olympiad in Informatics (IOI) held in Brisbane, Australia, and at Taipei, ROC Taiwan in 2014. For these olympiads, training was done by University of Colombo (UCSC) under the guidance of Prof. Gihan Wickramanayaka. This year, IOI is being held in Kazakhstan in July, and I'm currently training for that. Furthermore, in 2012, 2013, and 2014, I took part in the Asia Pacific Informatics Olympiads (APIO) as part of the Sri Lankan team.

As for my computer skills, I do Android development, mobile application development, Java, C++, Haskell, Scala, and Javascript. I speak Sinhalese as my native language, English with bilingual proficiency, and Spanish and German with limited working proficiency.

Author : Roshnal Lihinikadu , NSSC Gold winner for 3 Consecutive years



Seminar on Cloud Security

The CSSL organized a free Seminar on Cloud Security on 28th May 2015. The seminar was presented by Dr. Kosala Yapa Bandara Head, Department of Software Engineering - SLIIT and it was held at UCSC Mini-auditorium, and there were 73 participants.



Cloud computing demands companies to consume and compute resources as a utility rather than having to build and maintain computing infrastructure in-house, however Data breaches and Cloud service abuse rank among the greatest Cloud security threats according to Cloud Security Alliance

We think everyone on the planet deserves to have their own virtual data center in the Cloud...
- Lew Tucker-

Cloud computing will be as influential as E-business
-Gartner-

One of the most important transformations the federal government will go through in the next decade...
- Obama's TIGR Team-

Who knew that the concept of security in Cloud computing was even possible to imagine ?...

-Scott Bradner-

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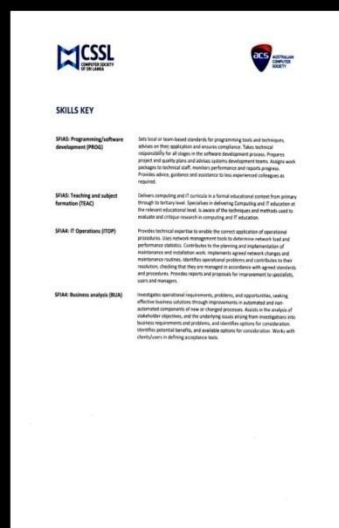
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Security in Internet of Things - Current Status Survey of the Literature

“Today computers – and, therefore, the Internet – are almost wholly dependent on human beings for information. Nearly all of the roughly 50 petabytes (a petabyte is 1,024 terabytes) of data available on the Internet were first captured and created by human beings by typing, pressing a record button, taking a digital picture or scanning a bar code.

The problem is, people have limited time, attention and accuracy – all of which means they are not very good at capturing data about things in the real world. If we had computers that knew everything there was to know about things – using data they gathered without any help from us – we would be able to track and count everything and greatly reduce waste, loss and cost. We would know when things needed replacing, repairing or recalling and whether they were fresh or past their best.”

One example, is a heart monitor, that can be equipped to send information to your doctors office, a sprinkler system can be set up to determine if your lawn needs watering and perform the task, all without you having to do anything.

Another example is Google's acquisition of Nest, a company that makes a thermostat that extracts data from the environment, including information about lighting, humidity, and the daily behavior of a home's residents in order to automatically adjust the temperature settings based the resident's preferences.

Because the sensors embedded these devices are linked through wired and wireless means, often using the same Internet Protocol (IP) that connects the Internet, security in IoT will become a primary concern for many IoT related products and businesses.

There are hundreds of thousands of homes equipped with video cameras today that stream images to tablets and mobile phones of owners. In the healthcare industry, wrist bands and other wearable devices are being produced so that your doctor gets an intimation when you fall sick. Auto manufacturers are building cars that can sense when other vehicles are too close, so that accidents can become a thing of the past.

The Internet gave us the opportunity to connect in ways we could never have dreamed possible. The Internet of Things (IoT) will take us beyond this to become a global nervous system.

The “Things” in IoT refer to devices attached to the Internet having a unique identifier and the ability to send and receive information without human interaction.

Kevin Ashton, cofounder and executive director of the Auto-ID Center at MIT, first mentioned the Internet of Things in a presentation he made to Procter & Gamble. Here's how Ashton explains the potential of the Internet of Things:

The IoT movement has already seen some of the biggest companies in every field — AT&T, Ericsson, Nokia, Qualcomm, Accenture, Vodafone, General Motors, Mercedes Benz and BMW, among many, many others — investing significantly on developing new products. These companies are adding wireless connectivity to their devices, bringing network connectivity and remote management to their offerings in order to appeal to a growing number of smart consumers.

But while IoT offers a huge business opportunity, consumer rights advocates and privacy watchdogs fear complete chaos. So far, only Google and a few other sites you visited while surfing the Net or posting on a social website kept track of your interests. But as personal devices increasingly get connected to the Internet, and transmit data, it will be hard for you to keep any part of your life a secret. A smart car will log the roads you drive on and your driving style and will share the captured data with your car workshop.

The toothbrush will inform your dentist each time you forget to brush before going to bed. The refrigerator will tell the grocer how much and what you are consuming. The smart television set will send out data on the programs you watch. The sneakers you wear will upload your walking pattern to the fitness website. Pretty soon, every bit of your life will be tracked and uploaded as you start embracing smart devices.

The endless variety of IoT applications poses an equally wide variety of security challenges. In factory floor automation, deeply embedded programmable logic controllers (PLCs) that operate robotic systems are typically integrated with the enterprise IT infrastructure. How can those PLCs be shielded from human interference while at the same time protecting the investment in the IT infrastructure and leveraging the security controls available?

A smart meter—one which is able to send energy usage data to the utility operator for dynamic billing or real-time power grid optimization—must be able to protect that information from unauthorized usage or disclosure. Information that power usage has dropped could indicate that a home is empty, making it an ideal target for a burglary or worse.

Continued -->



In August of 2013 a couple in Houston heard a stranger talking to their 2-year-old daughter through the baby monitor. The monitor in question, a Foscam, allows for remote monitoring from around the world. Remote access is a handy feature for parents away on a trip that want to check in on things at home, but quite distressing if that remote connection has been hacked into by a malicious stranger.

If privacy is the big casualty in an IoT environment, a cyber-attack is a nightmare. The worst Trojan attack today can, at best, paralyze your work and home computers — and perhaps damage your mobile phone. In a connected world, such an attack can very well cripple your life — from shutting off your smart air conditioner to preventing you from entering your house or starting your car by attacking the onboard computers. That is why IoT is seen as a huge opportunity by all kinds of cyber security firms.

Continued...

You may want to implement some of the following IoT security tactics to ensure peace of mind.

- Design a good perimeter protection with a firewall and an intrusion prevention system.
- Include everything in a security information and event management environment.
- Implement an emergency response program.
- Include a good identity and access management program with your IoT program for central user control. Consider, for instance, using a cloud identity approach.
- Implement two-factor authentication where practical.
- Have the administrators of your devices use privileged user control.
- Search for standardization. The market will soon define standards for the IoT, including security standards.
- If you have a third-party IoT provider, consider due diligence.
- Stay informed with key sources of security through groups such as the National Institute of Standards and Technology (NIST).

The IoT is quickly reshaping our world and the way in which we communicate to each other and to things. However, strong security will be essential for applications, devices, and networks in order to realize the tremendous economic and productivity benefits made possible by connecting more systems to each other and the cloud.



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Nalin Goonawardana is an Ex Virtusan, a graduate in bachelor of Information Technology from UCSC, who brings in nearly 9 years of industry experience in software quality assurance. He is also a Certified SCRUM master

Held on 4th June 2015@ University of Colombo School of Computing (UCSC)





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