

Rahul Isola



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www.rahulisola.com



http://www.linkedin.com/in/rahulisola

Education

University of North Carolina at Charlotte (2013)
Master of Science, Computer Science, GPA: 3.7

DBIT, Mumbai University (2012)
Bachelor of Engineering, Mechanical Engineering

Skills

Programming Java, C#, .NET, Android, C++, Embedded (Arduino)

Web Dev PHP, HTML, CSS, JS, jQuery, Twitter Bootstrap, ASP.NET, AJAX, JSP, Servlets, Node.JS, Web Services, CodeIgniter, DotNetNuke

Multimedia Adobe CS (Photoshop, Flash, Premiere, Dreamweaver), CorelDRAW

Database MS SQL, SSIS/SSDT, MySQL, MongoDB, IBM DB2

Others MatLAB, Microsoft Office, Microsoft Windows, Linux, Joomla, Apache, IBM RSA, Eclipse, IBM Websphere, 3D MAX, AutoCAD, Inventor, UG NX, ProE, MasterCAM, Cisco IOS, SNMP

ORACLE®
Certified Professional
Java SE 6 Programmer

Experience

Systems / Data Security Specialist

Bank of America, Global information Security (GIS)

(Feb 2014 - Present)

(2 ongoing patent applications)

Description: Part of the DDos and APT team within the 'Cyber Security Technology' group in GIS. Roles include being the technical SME for multiple projects, come up with ideas for automation, process and tool enhancements for enhancing the cyber security controls in the bank. **Projects:** Design and automate the Enhanced Cyber GeoSecurity Controls program for better security and endpoint monitoring for travellers to High Risk regions, Oversee deployment of security enhancements to protect company-owned hosts DMZs worldwide.

2 Patents: Enhanced Cyber GeoSecurity Controls Automation, Network Security Enhancement tool for NDR (Network Detection and Response) Team

Technical Specialist - Application Dev.

(Aug 2012 – Dec 2013)

University of North Carolina at Charlotte

Student Developer for the Computer of Engineering (CoE) Department (Mosaic Computing Group) Development activities included designing and developing high visibility and scalable live applications on multiple platforms to be used by students, faculty and researchers. Applications– **Web Apps:** Develop APIs, Ticketing System, Online multiple labs workstation status monitoring and remote connectivity solution, **Java + Web Apps:** Remote server/workstation connectivity and SSH tunnelling for Researchers for secure connection from their personal machines, System Health Monitor for remote status monitoring, timed token renewal, 2-way messaging and support for all PCs, managing users, tokens, plotters etc in CoE labs.

Freelancing Developer / Consultant

(Aug 2009 – Mar 2012)

Freelance Web/Application Designer and Developer, Self Employed, Consultant for Croadz Designs etc

Research Experience (DBIT / CSRE, IIT Bombay)

Automated Differential Diagnosis in Medical Systems (1 Patent, Publications: 1 Journal + 2 Conference Papers)

- Knowledge Discovery in Medical Systems Using Differential Diagnosis, LAMSTAR & k-NN, IEEE Transactions on Information Technology in Biomedicine (*Journal Paper*)
- *MediQuery – An automated Medical Decision Support System*, 24th International Symposium on Computer Based Medical Systems (CBMS) 2011 (*Conference Paper*)
- *Automated Differential Diagnosis in Medical Systems using Neural Networks, kNN and SOM*, Developments in e-Systems Engineering (DeSE'2011) (*Conference Paper*)
- *Medical Diagnosis via Communication Networks (India 3515/MUM/2012) (Patent)*

Geo-ICT and sensor Network based Decision Support Systems in Agriculture and Environment Assessment (Indo-Japan bilateral Collaborative project)

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Previous Projects and Freelance Works

Multiple Projects based on Java, Android, Web, and others (more on www.rahulisola.com)

Mosaic Anywhere	Real-time multiple online server status monitoring and remote connectivity tool (Web Application)
COEConnect	Java application to create a secure SSH tunnel between engineering faculty's personal machines and their research PCs and automatically set up a remote desktop connection. (Java Application)
phpSupport	Online ticketing system for the UNC Charlotte College of Engineering (Web Application)
Mosaic Helper	Monitors the health of the complete pool of PCs in the College of Engineering. Gives live status of the machines, users, tokens, plotters etc. Also allows remote monitoring and support. Allows timed token renewal, 2-way messaging between the PC and the administrator etc. (Java + Web Application)
Nexus Alerts	UNC Charlotte campus-wide Live Emergency Alerts Broadcast System (Java + Web Application)
Server Migration	Assisting in efficient migration of College of Engineering web server (Network / Security)
Self-Shot	Real-time Face recognition and tracking on Android
Browser Fingerprinting	Application to detect unique browsers (Web Application, Node.JS)
Personal portfolio	www.rahulisola.com
Automation Tasks	Various automation scripts for Bank of America
MDSS	Medical Decision Support System + Hospital Management System (Data Mining + Web App)
StockBot	Real-time Systems for Stock Market Prediction (Data Mining + Web App)
LiRA	Live Online Monitoring & Control of Biomechanical knee rehabilitation robot (Arduino, Visual C++ .NET, PHP)

Clients and Employers

Bank of America, Croadz.com, Lakshya Global Logistics, Expert Motor Driving School, For Vectorz Interactive: IQTelcom, Maharashtra Nature Park, BMC Aadhar, Urban Poverty Eradication Cell, DBIT ACM Students Chapter, Don Bosco Institute of technology, NSS Unit, Mumbai University, SHC India, DBIT CSI Student Chapter