# ROMIL JAIN

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## WORK EXPERIENCE

- **Software Engineer, Cisco Systems** [Aug 2015 – Present]
  **Project : ASR903**
  - Working as a developer in a team of 10 members in an agile setup, for the ASR90X series of routers mainly dealing with TDM IMs based on SONET/SDH.
  - Successfully implemented and delivered alarm profiling feature for ASR903 platform, enables the user to create profiles for various levels such as chassis, card or port and modify severities for various alarms. Users can also select which of the alarms to syslog.
  - Worked on critical bugs such as convergence time for APS switching, High CPU usage on standby router during boot up, APSd process crash and other bugs assigned to me bringing them to closure well within time lines.
  - Apart from the daily work I also worked towards developing a web based unit testing tool called Build Your Own Sanity to reduce regressions and time-to-commit for existing bugs using Bootstrap, PHP, shell scripts and python. Can be run on a single router hence reducing the dependency on specific setups to run basic UT cases thereby increasing the efficiency and reducing time to commit by 100%.

  **Project : Unified Computing System Manager (UCSM)**
  - Worked as key member for various critical features for Cisco UCS datacenter product. Took the initiative of automating test cases in a manual testing setup and implement feature enhancements by writing automated scripts in python.
  - Proactively took up additional responsibility for being Security Advocate for the entire Datacenter business unit, which included designing threat modeling for UCS stack. Coordinated and coached testing teams for effectively testing various vulnerabilities using tools such as Nessus, Qualys and Codenomicon and other security features such as remote authentication using LDAP, Radius, TACACS+ for Cisco Unified Computing System Manager (UCSM).
  - Gave a POC for testing team for automation of APIC which helped reduce testing cycles and decreased turnaround time for QA.

- **Software Engineer Intern, General Electric (GE) Healthcare** [Dec 2014 – April 2015]
  - Developed a tool to perform Automation and Regression Testing for HTML5 and JAVA based Graphical User Interface (GUI) to test the user interface under real world circumstances.
  - The tool also takes a snapshot of the system to help identify the errors along with the memory usage of the system represented using a bar graph. Tool also sends auto generated emails to the team containing a report for review.
  - Developed and deployed a GUI based as well as a command line tool to record and file bugs on ClearQuest (a bug tracking tool by IBM).

- **Intern, TCS Innovation Labs** [May 2014 – July 2014]
  - Elementary GIS and Speech Processing to build a pan India database of latitudes and longitudes of all villages using a shell script and to test a small vocabulary of words using the CMUSphinx Tool as a part of Speech Processing.

## EDUCATION

- **Bachelor of Technology (B. Tech)** [2011 - 2015]
  **Computer Science and Engineering** with **CGPA** of **8.42**
  Manipal Institute of Technology, Manipal

## SKILLS

- **Programming Languages:** C, Python, Java
- **Platforms:** Windows, Linux, Cisco IOS

## PROJECTS & WORKSHOPS

- **Windows 8 Desktop Application:** Developed a Windows Desktop Application in Microsoft AppFest 2013 held in the college using C# and XAML to help kids learn alphabets and numbers. Selected among the top 25 Apps in the AppFest.
- **Work Management Tool:** Built a web based tool in final year of college using ASP.Net to help employees track tasks assigned to them and supervisors to track the tasks assigned by them.

- **BookStore:** Implemented a bookstore software in the final year of college. I was involved right from Software Requirement Specification, Analysis and Design of classes and the relationship between them using UML diagrams in IBM Rational Rose to implementation using ASP.Net.

## TECHNICAL CERTIFICATIONS

- Neural Networks and Deep Learning (Course 1/5 of Deep Learning Specialization by Andrew Ng from Coursera), 2017
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization (Course 2/5 of Deep Learning Specialization by Andrew Ng from Coursera), 2017
- Structuring Machine Learning Projects (Course 3/5 of Deep Learning Specialization by Andrew Ng from Coursera), 2017
- Convolutional Neural Networks (Course 4/5 of Deep Learning Specialization by Andrew Ng from Coursera), 2017
- Sequence Model (Course 5/5 of of Deep Learning Specialization by Andrew Ng from Coursera), 2017
- Cisco certified Security Ninja, an internal security certification of Cisco, 2016
- Oracle certified Advanced Java Programmer for Web Development, 2013

## CO-CURRICULAR ACTIVITIES

- **Non-Profit initiative:** Involved with a non-profit Trust named *"Becoming I Foundation"* to help educate the underprivileged children since January 2016.
- Coordinated events in intercollege technical and cultural festivals
- Part of the IECSE Working committee.

## REFERENCES

- **Mr. Yogesha MG,** Engineering Manager, Cisco Systems, Bangalore
  Email: ymadalug@cisco.com

- **Mr. Vamsidhar Konduru,** Staff Software Engineer, GE Healthcare, Bangalore
  Email: vamsidhar.konduru@ge.com