

# ROMIL JAIN

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## EDUCATION

- **Master of Science (MS) in Computer Science** Aug 2019 – Dec 2020 (Expected)  
State University of New York at Stony Brook  
Courses: Distributed Systems, Analysis of Algorithms, Fundamentals of Computer Networks, Big Data Systems
  - **Bachelor of Technology (B. Tech) in Computer Science and Engineering** July 2011 – May 2015  
Manipal Institute of Technology, Manipal | CGPA: 8.42/10
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## EXPERIENCE

- **Full Stack Developer, Whatfix, Bangalore** July 2018 – Feb 2019
    - Worked in a team of 4 members using technologies such as Java, Google Web Toolkit and Cassandra.
    - Responsible for end-to-end feature development, code reviews and mentoring junior engineers.
    - Worked as a part of the platform team and implemented features such as export of flows as pdf and video, flows history and ability to revert a flow to a particular timestamp in the past.
  - **Software Engineer II, Cisco Systems, Bangalore** Aug 2015 – July 2018
    - Project : ASR903**
      - Worked 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 which enables the user to create profiles for various levels such as chassis, card or port and modify severities for various alarms.
      - Worked on critical bugs such as convergence time for APS switching, High CPU usage on standby router during boot up, APSd process crash bringing them to closure well within time lines.
      - Proactively 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, Python and MySQL. 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)**
      - Took the initiative of automating test cases in a manual testing setup and implemented feature enhancements by writing automated scripts in python.
      - Delivered 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, Bangalore** 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.
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## SKILLS

<b>Programming Languages</b>	Java, C, Python, C++, Golang, JavaScript
<b>Platforms</b>	Windows, Linux, Cisco IOS

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## PROJECTS

- **Fault Tolerant Key/Value Store:** Currently working towards building a Sharded Fault Tolerant Key Value store built on Raft consensus algorithm using Golang as part of the Distributed Systems class.
- **RIP-Lite:** Developed a routing protocol based on Distance Vector Routing using Bellman Ford Algorithm using python and mininet which runs continuously and responds to change in weights/cost between links to update the routing table.
- **DNS Resolver with DNSSec:** Developed an Iterative DNS Resolver for A, MX and NS queries which also supports DNSSec validation.
- **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.