

Sohil Ladhani

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PROFESSIONAL EXPERIENCE

- **Software Engineer 2** Mar 2019 - Present
Cisco Systems Bengaluru
 - **Licensing:** Implemented more than 4 features for both Traditional and Smart Licensing, and developed corresponding regression scripts using Python to achieve 100% code coverage as a part of licensing team for Data Center Switches.
 - **Automation:** Led a team to develop end-to-end sanity scripts for licensing component, which improved the turn around time to commit the code by 68%, by making the scripts a part of the developer workflow.
 - **3rd party integration:** Took initiative to integrate 3rd party licensing database libraries and binaries provided by Flexera Inc. into license manager code, with occasional assistance from Flexera Support Engineering team.
 - **Leveraged knowledge in:** C, Linux, Python, PyATS
- **Network Consulting Engineer** Jul 2017 - Feb 2019
Cisco Systems Bengaluru
 - **Core developer:** Core member of Tracker and Operations Platform, which is a unified platform to track end-to-end customer deliverables. Helped reduce the delivery time to 74% of the previous time.
 - **Trusted Advisor:** Responsible for analyzing potential issues in the network of the European customers, and suggesting proactive countermeasures to avoid and mitigate those issues.
 - **Leveraged knowledge in:** Python, Django, JavaScript
- **Software Engineering Intern** Jan 2017 - Jun 2017
Cisco Systems Bengaluru
 - **UT framework for Cisco IOS-XE stack:** Developed a module within UT framework responsible for capturing and replaying database configuration of a Cisco Catalyst switch onto a virtual environment to perform white-box testing.
 - **Simulation of device configurations:** Built an XML Parser in 'C' to parse the device configurations and simulate the same in the virtual environment. Prepared test-cases and mocks for CTS (Cisco Trusted Security) components using Lua script.
 - **Leveraged knowledge in:** C, Linux, Lua, Simple API for XML (libxml2)
- **Associate Software Engineer** Aug 2013 - Oct 2014
Thomson Reuters Ahmedabad
 - **Developer:** Served as a developer of AgileTax, a leading software from the tax preparation portfolio. Was responsible for developing and testing new features as per business requirements.
 - **Build Automation Lead:** Improved the daily, weekly and bi-weekly software builds by over 30% by fully automating the build process using Microsoft Team Foundation Server.
 - **Leveraged knowledge in:** C# .NET, VB6

PROJECTS

- **Simulation and Performance Analysis of Wireless SDN**
 - Simulated a wireless SDN to analyze the potential advantages of SDN over wireless networks.
 - Successfully tested 2 techniques of mobile handoffs: 1. Proactive and 2. Reactive.
 - **Utilized:** Python, POX (controller), OpenNet (simulator), NetAnim (topologies)
- **Yet Another Network Controller (Opensource Contribution)**
 - Submitted a patch to Yet Another Network Controller (yanc).
 - Modified the code to conform to OpenFlow 1.1 by changing the size of the incoming packets of the OpenFlow switch.
 - **Utilized:** C++, OpenFlow protocol, SDN
- **Brainf**k Interpreter**
 - Developed a web-based interpreter for brainf**k language in Python.
 - Incorporated Python Lex-Yacc (PLY) for Lexical and Syntactical analysis of the Brainf**k source code.
 - **Utilized:** Python, CherryPy web framework, PLY, HTML, CSS, JavaScript

EDUCATION

- **Birla Institute of Technology and Science, Pilani** Aug 2015 – Jun 2017
Master of Engineering in Computer Science; CGPA: 9.08 Hyderabad
- **Gujarat Technological University** Aug 2009 – Jun 2013
Bachelor of Engineering in Computer Science; CGPA: 8.15 Gandhinagar

SKILLS

- **Languages:** Java, C, Python
- **Tools:** Git, GDB, Valgrind
- **Frameworks/Libraries:** PyATS, Django