Sohil Ladhani

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PROFESSIONAL EXPERIENCE

Software Engineer 2 — Mar 2019 - Present
Cisco Systems — *Bengaluru*

- **License Manager Team**: Implemented 4 sub-modules for both Traditional and Smart Licensing modules in C language, and developed corresponding unit tests to achieve 100% code coverage, as a part of licensing team for Data Center Switches.
- **3rd party integration with License Manager**: Took initiative to integrate 3rd party licensing database libraries and binaries provided by Flexera Inc. into license manager code, by working closely with Flexera Support Engineering team.
- **Automation**: Led a team to develop end-to-end sanity scripts for license manager component, which improved the turn around time to commit the code by 68%, by making the scripts a part of the developer workflow.
- **Model driven programming**: Implemented data models to provide a structured and well-defined base to facilitate programmatic interactions with the network switches via REST API.
- **Leveraged knowledge in**: C, C++, Linux, GDB, Valgrind, GLib, bash, Python, PyATS, Git, Data Center Networking

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 delivery 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, JavaScript, Network Protocols, Git

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, GDB, Valgrind, bash, Make, 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, Microsoft TFS

PROJECTS

- **Simulation and Performance Analysis of Wireless SDN**
  - Simulated a wireless SDN to analyze the potential advantages of SDN over wireless networks.
  - Successfuly tested 2 techniques of mobile handoffs: 1. Proactive and 2. Reactive.
  - **Utilized:** Python, POX (controller), OpenNet (simulator), NetAnim (topologies)

- **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 (proficient). Python, bash, C++ (working knowledge). JavaScript, C#, Lua, VB6 (familiar)
- **Tools**: Git, Make, GDB, Valgrind, tmux, PyCharm, POX Controller, OpenNet Simulator, NetAnim
- **Software Methodologies**: Agile, Scrum, TDD, RAD, OOPS, Design Patterns
- **Frameworks/Libraries**: GLib, PyATS, Django, CherryPy, libxml2