

Sohil Ladhani

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PROFESSIONAL EXPERIENCE

- **Senior Member Technical Staff** Oct 2021 - Present
Oracle India Private Limited Bengaluru
 - **NSSF (5G)**: Helped redesigned MySQL database schema for the newer release of the NSSF network function software. Improved query processing time by roughly 40% through optimizing the bottlenecks in the MySQL queries. Made improvements in the overall architecture by adding new Spring Boot based microservices as per the revamped database schema.
 - **Cloud Native**: Led task of HTTP/2 performance testing and benchmarking on various virtual machine setups for the newer release using Kubernetes, Docker and in-house tools. Detected bottlenecks in the testing and rectified those by improving database queries.
 - **Utilized**: Java, Spring Boot, REST, Kubernetes, Docker, MySQL, Linux, bash
- **Software Engineer 2** Jul 2017 - Oct 2021
Cisco Systems Bengaluru
 - **License Manager**: 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.
 - **Utilized**: C, C++, Linux, GDB, Valgrind, GLib, bash, Python, PyATS, Git, Data Center Networking
- **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.
 - **Utilized**: 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.
 - **Utilized**: C# .NET, VB6, Microsoft TFS

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**: proficient - Java, C; familiar - Python, bash, C++, JavaScript
- **Tools**: Kubernetes, Docker, Podman, Grafana, MySQL, Git, Make, GDB, Valgrind, tmux
- **Software Methodologies**: Cloud Native, Microservices, REST, Agile, Scrum, TDD, OOPS, Design Patterns, Data Structures, Algorithms, Database
- **Frameworks/Libraries**: Spring, Spring Boot, Spring Cloud