Sohil Ladhani

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PROFESSIONAL EXPERIENCE

- **Cisco Systems** — Bengaluru
  Network Engineer — *Jul 2017 - Present*
  - **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.
  - **Leveraged knowledge in**: Python, Django, JavaScript
  - **Trusted Advisor**: Responsible for analyzing potential issues in the network of the European customers, and suggesting proactive countermeasures to avoid or mitigate those issues.

- **Cisco Systems** — Bengaluru
  Software Engineer, Intern — *Jan 2017 - Jun 2017*
  - **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. Wrote test-cases and prepared mocks for different components using Lua script.
  - **Leveraged knowledge in**: C, Lua, Simple API for XML (libxml2)

- **BITS Pilani, Hyderabad** — Hyderabad
  Teaching Assitant — *Aug 2015 - Dec 2016*
  - **Java Hands-on Lab**: Designed assignments and supervised the lab sessions attended by 250+ students regularly.
  - **Distributed Operating Systems**: Helped instructor in charge in setting up and evaluating the examination papers.
  - **Leveraged knowledge in**: Core Java, RPC, C

- **Thomson Reuters** — Ahmedabad
  Associate Software Engineer — *Aug 2013 - Oct 2014*
  - **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

- **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

- **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

- **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)

- **Tap Tester**
  - Tap Tester is an Android application which tests user's speed to tap on the screen using a button.
  - Built a custom stopwatch functionality to measure the time it took the user to click the button.
  - **Utilized:** Java, Android

EDUCATION

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

PROGRAMMING SKILLS

- **Languages**: (proficient) Java, C, (working knowledge) Python, Javascript, SQL (familiar) C++, Lua, C#
- **Tools**: Git, GDB, Valgrind, Splunk, Packet Tracer, Docker
- **Frameworks/Libraries**: nltk, CherryPy, Django, StAX, pickle, SAX, pip, Hadoop, libxml2