

# ANHAD JAI SINGH

## PERSONAL INFORMATION

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## ABOUT ME

I'm a curious guy, I ask questions and I like to learn.  
Interested in all things Networking, Linux, Containers, Distributed Systems and Open Source.

## WORK EXPERIENCE

*May'17–Apr'18* Tech Lead, Cloud Services — Gurgaon

*Tower Research*

Worked as part of a division building out and driving adoption of on-premise cloud infrastructure. Responsibilities included individual contributions, technical advisory for product teams regarding cloud migrations and container technology. Also responsible for structured training of new recruits and mentoring junior engineers within the team.

- Designed, wrote and deployed various networking components to expose Kubernetes services outside the cluster, bringing the on-prem clusters close to parity with cloud providers. Work included rolling out custom network ingress, load-balancing and DNS solutions. This reduced time to provision a service from a few days to a few seconds, removed any single points of failure in the networking stack and added self-recovery capabilities. The project required understanding of container networking, iptables, DNS and working with golang. As part of these efforts, I also contributed to OSS projects such as [pdns](#) and [external-dns](#)
- Helped product teams on-board various applications such as simulations, back-testing, backend API servers etc. onto Kubernetes/Cloud Infrastructure, acting as the primary point of communication and escalation.

Reference #1: Neil TIWARI · Team Manager · [REQUEST EMAIL](#)

Reference #2: Myung CHO · CTO · [REQUEST EMAIL](#)

*Aug'15–May'17* DevOps, Core Engineering — Gurgaon

*Tower Research*

Worked as part of an innately cross-functional team with various responsibilities ranging from build & release engineering, writing developer productivity tools, to on-call support and server administration.

- Designed and rolled out revamped, containerized build infrastructure for CI/CD using Docker, Kubernetes and Jenkins over 8 months, migrating over 300 jobs used by over 100 developers in the process. Evaluation involved setting up A/B testing and metrics collection for the project, which showed a 35% improvement in speed and a drastic reduction in intermittent failures.
- Wrote various components in Python for an in-house git based meta-SCM system for cross-repo dependencies, including the API server, test harness, and update notification system.
- Helped migrate the development stack from Fedora20 to Fedora22, including recompiling over a hundred in-house and open-source packages and trouble-shooting linking, loading and runtime errors in applications.
- Responsible for the administration and support of our Gitolite, Gerrit, Jenkins, Jira and Apache servers as well as in-house developer productivity tooling.

Reference: Rahul BALANI · Division Manager · [REQUEST EMAIL](#)

*May'15-Jul'15* Release Engineering Intern — San Francisco

*Mozilla*

Worked with multiple teams within Mozilla to plan and execute migrations of existing services and CI builds to newer, more robust in-house cloud based platforms. Most work involved Ansible, Docker, AWS and an internal platform called Taskcluster.

Also helped make the team's work more approachable for newcomers and earned recognition for bringing in and mentoring new contributors.

Reference: Hal WINE · Sr. Release Engineer · [REQUEST EMAIL](#)

*Feb'14-Aug'15* Junior System Administrator — Hyderabad

*IIT Hyderabad*

Worked as Junior System Administrator, managing and maintaining the Institute's desktops and servers used by over 2000 users.

*May'14-Aug'14* Release Engineering Intern — San Francisco

*Mozilla*

Worked with Mozilla's globally distributed team of Release Engineers across timezones, to develop a new on-demand software update generation system for Firefox called Funsizer to thereby reduce the time and effort needed to support custom upgrade pathways. Written in Python and hosted on AWS.

Reference: Hal WINE · Sr. Release Engineer · [REQUEST EMAIL](#)

*Jun'13-Aug'13* Automation & Tools Intern, Mozilla — Remote

*Google Summer of Code*

Worked with Mozilla's Automation and Tools Team remotely to analyse and improve test coverage for 10+ python libraries (called Mozbase) by over 150%, while coordinating with each component owner to ensure correct and necessary coverage.

Reference: Clint TALBERT · Director Automation & QA · [REQUEST EMAIL](#)

## VOLUNTEER EXPERIENCE

*May'13-May'15* Head, OPEN SOURCE DEVELOPMENT GROUP

*Open Source Development Group, IIT-H*

Built awareness about F/OSS software, encouraged contributions to the community. Organized talks and hackathons to encourage community growth and learning. Greater awareness and encouragement helped increase the Google Summer of Code selections from 16 (GSOC '12) to 69 (GSOC '14). Regular writer for the Group's Technical Blog.

## SKILL SET

*Proficient*

PYTHON, BASH

*Rudimentary*

C, C++, Go, JAVASCRIPT

*Misc*

DOCKER, KUBERNETES, QEMU/KVM, ANSIBLE, JENKINS, INFLUXDB, APACHE, GIT

*Compute Clouds*

GOOGLE COMPUTE ENGINE, AWS, DIGITAL OCEAN

*Operating Systems*

RHEL Family, Ubuntu, CoreOS

## EDUCATION

*Bachelor's in CS (Hons. CV & AI)*

2011-15 · International Institute of Information and Technology, Hyderabad

## ONLINE PRESENCE

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