ANHAD JAI SINGH

PERSONAL INFORMATION

email	anhad.jai.singh@gmail.com
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ABOUT ME

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

UNDERGRADUATE RESEARCH

May'13–May'15   Honors, CVIT

Prof. Anoop M. Namboodiri

Worked to devise classifiers for use in computationally restrictive environments such as smartphones. The idea was to make them faster and more compact than state-of-the-art classifiers, sacrificing accuracy where necessary.

- Proposed a new tree based classifier that was a hybrid of one-vs-one and one-vs-rest classifiers and evaluated and later attempted to optimize its performance along different axes such as speed, memory utilization and accuracy.
- In the process of evaluation we came up with a way to visualize the progress and final results of the classifier using d3.js and a small python backend server that would serve the most up-to-date progress status of the classification process.
- The full, detailed project report for this project is available at: https://web.iiit.ac.in/ anhadjai.singh/Notes/library
- The visualization for a (static) classifier is available at: https://web.iiit.ac.in/ anhadjai.singh/honors/vis/

WORK EXPERIENCE

May'17–Cont.   Tech Lead, Cloud Services — Gurgaon

Tower Research

Working as part of team building on-prem cloud infrastructure.

- Researched, designed, planned, demoed and currently rolling out custom network ingress, loadbalancing and DNS solutions for on-perm Kubernetes clusters while working with a cross-functional team of experts across timezones.
- Evaluated and expanded the capabilities of pdns and external-dns as part of these efforts, upstreaming changes to benefit the wider community.

Reference: Neil TIWARI · Team Manager · REQUEST EMAIL

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

Tower Research   Worked as part of an innately cross-functional team to improve developer workflow and productivity by writing tooling to automate and streamline processes.

- Designed, proposed and rolled out a 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.
- Worked as part of a team to build, test and roll out the server-side component of a meta-SCM system that keeps track of cross-project source dependencies, now widely deployed.
- Designed and delivered a simple server-client system used for update notification management of command line tools.

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 legacy services and build configurations and release pipelines to a new platform based on AWS providing a more robust and reliable setup. Most work involved Ansible, Docker, AWS and Python. Second project involved working with and migrating workloads to an internal workload orchestration platform called Taskcluster, built using Docker and Golang.
Reference: Hal WINE · Sr. Release Engineer · REQUEST EMAIL

Feb'14–Aug'15   Junior System Administrator — Hyderabad

IIIT Hyderabad   Worked as Junior System Administrator, managing and maintaining the Institute's 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 to develop a new on-demand partial software update generation system for Firefox called Funsize.
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 analyze and improve test coverage for an python library suite called Mozbase.
Reference: Clint TALBERT · Director Automation & QA · REQUEST EMAIL

TEACHING EXPERIENCE

May'13–May'15   Teaching Assistant, IT WORKSHOP-I

IIIT-H   Taught the fundamentals of Linux, Shell Scripting and Javascript to a class of freshmen. Responsibilities included:

- Preparing content for and conducting labs for freshmen.
- Creation and evalution of course assignments.
- Mid-Term and Final exam evalution.

Jul'17–Aug'17   Course Instructor, DevTools

Tower University   Instructor for an introductory course on version control, build systems, package managers, details of compilation and linking to campus graduate hires. Responsibilities included:

- Teaching and prepation of course content.
- Creation and evalution of course assignments.

VOLUNTEER EXPERIENCE

May'13–May'15   Head, OPEN SOURCE DEVELOPMENT GROUP

Open Source Development Group, IIIT-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.

Jun'14–Nov'14   Community Building, RELEASE ENGINEERING

Mozilla

Recognized for bringing in and mentoring new contributors. Helped make the team's work more approachable for new volunteers.

Dec'12-Dec'13   Volunteer Contributor, AUTOMATION & TOOLS

Mozilla

Helped fix numerous bugs across different test suites and testing frameworks.

EDUCATION

Bachelor's in CS (Hons. CV & AI)   2011–15 · International Institute of Information and Technology, Hyderabad

AWARDS AND ACHIEVEMENTS

Dean's Merit List   2012 · Awarded to top performing students every semester

Letter of Recognition   2015 · Awarded for outstanding contributions to the student community as a student System Administrator.

ADVANCED ELECTIVES

Vision & AI   STATISTICAL METHODS IN AI, DIGITAL IMAGE PROCESSING, COMPUTER VISION

Systems   ADVANCED COMPUTER NETWORKS, DATABASE SYSTEMS, DISTRIBUTED SYSTEMS

Others   COMPILERS, PRINCIPLES OF PROGRAMMING LANGUAGES

Capable   C, C++, GO, JAVASCRIPT

SKILL SET

Proficient   PYTHON, BASH

Capable   C, C++, GO, JAVASCRIPT

Container Tech   DOCKER, KUBERNETES, RKT

Ops Miscellany   ANSIBLE, HELM, JENKINS, LINKING AND LOADING IN LINUX

Compute Clouds   GOOGLE COMPUTE ENGINE, AWS, DIGITAL OCEAN

Operating Systems   Linux(Preferred), OSX, Windows

Version Control   GIT, MERCURIAL

ONLINE ALIASES

Github · ffledgling
Twitter · ffledgling