

ANSHUL GUPTA

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INTERNSHIPS

Google Summer of Code 2017 (The Linux Foundation)

Common Print Dialog

Jun '17 — Aug '17



- Designed and build a unified solution for printing in desktop environments
- Focus: C++, Qt, Dbus

École Normale Supérieure de Lyon (INRIA)

Towards more scalable off-line simulation of MPI applications

May '14 — Jul '14

Lyon, France



- Developed a framework for scalable time-independent trace replay for off-line simulation of MPI applications
- Focus: R, MPI, C++

Indraprastha Institute of Information Technology, Delhi

Performance analysis and Optimization of Hadoop based cluster

May '13 — Jul '13

New Delhi, India

- Analyzed the effect of various configuration parameters on Hadoop performance under various conditions to achieve maximum throughput
- Focus: Hadoop

M.TECH. DISSERTATION

Scalability, Reliability, and Security of BodhiTree

Jul '18 — Present

- OBJECTIVE** — Supporting no more than 250 students combined with the security bugs, BodhiTree needs to be revamped, so that theoretically, its performance can increase linearly with linear increase in resources

PROJECTS

ASSR: Automatic Stuttered Speech Recognition

Autumn '17

- OBJECTIVE** — Enabling people having a stuttering speech impediment to use the current state-of-the-art speech-to-text systems
- Focus: Python, Audio Processing

Face Recognition using Faster R-CNN

Spring '17

- OBJECTIVE** — Draw bounding box on all the faces in an image
- Focus: Python, Image Processing

Machine Learning approach for Music Genre Classification

Spring '16

- Used neural nets and decision trees to classify music into different categories: Rock, Hip Hop, Jazz, etc.
- Focus: Python, Audio Processing

Solving Sudoku using Boolean SAT Solver in Haskell

Autumn '17

- OBJECTIVE** — Build a SAT Solver and use it to solve Sudoku
- Focus: Functional Programming

Resource Provisioning of LXD Containers

Autumn '16

- OBJECTIVE** — Prevent memory SLA violations in LXD based containers
- Focus: Python, LXD Containers, Auto-Scaling

PUBLICATIONS

Journal Articles

- Casanova, Henri, Anshul Gupta, and Frédéric Suter (2015). "Toward more scalable off-line simulations of MPI applications". In: *Parallel Processing Letters* 25.03, p. 1541002.

Conference Proceedings

- Apte, Varsha et al. (2017). "AutoPerf: Automated load testing and resource usage profiling of multi-tier internet applications". In: *Proceedings of the 8th ACM/SPEC on International Conference on Performance Engineering*, pp. 115–126.
- Bansal, Garvit et al. (2014). "A framework for performance analysis and tuning in hadoop based clusters". In: *Smarter Planet and Big Data Analytics Workshop (SPBDA 2014), held in conjunction with International Conference on Distributed Computing and Networking (ICDCN 2014), Coimbatore, INDIA*.

EDUCATION

IIT Bombay

M.Tech. in Computer Science & Engineering

Jul '16 — Present

LNMIIT, Jaipur

B.Tech. in Computer Science & Engineering

Jul '11 — May '15

SKILLS

