ANSHUL GUPTA

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INTERNSHIPS

Google Summer of Code 2017 (The Linux Foundation) Common Print Dialog

₩ Jun '17 — Aug '17

9 –

git 🗗

- 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

git 🖸

- 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

Resource Provisioning of LXD Containers

Autumn '16

• OBJECTIVE — Prevent memory SLA violations in LXD based containers

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.

WORK EXPERIENCE

Research Assistant
CSE, IIT Bombay — Prof. Varsha Apte

聞 Jul '16 − Present

- Did experiments on client bottleneck detection and scalability of AutoPerf
- Upgraded AutoPerf so that it supports newer Java version, Maven architecture, and Google's style guide

EDUCATION

IIT Bombay

M.Tech. in Computer Science & Engineering

₩ Jul '16 — Present

GPA 8.33 / 10

The LNM IIT, Jaipur

B.Tech. in Computer Science & Engineering

GPA 7.59 / 10

• Focus: Python, LXD Containers,

txt2midi: Indian musical notations to MIDI using Python Autumn '16

• OBJECTIVE — Convert Indian classical music notation from text to MIDI