ANSHUL GUPTA

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EXPERIENCE

Entrepreneur First
Founder in Residence

📅 Feb '21 — Present   📍 Bangalore, India

- Using computer vision to increase success rates of In Vitro Fertilization (IVF)
- Hypothesis validation and customer development for the product
- **Focus**: Entrepreneurship, Healthcare, Computer Vision

Samsung R&D Institute India — Bangalore
Senior Software Engineer

📅 Jul '19 — Jan '21   📍 Bangalore, India

- Super Resolution for 3D Ultrasound images of fetal face
- Follicle Growth Tracking in ovaries using 3D Ultrasound Scans
- Identity network based on UNet model for medical images to be used as a better initialization for transfer learning
- **Focus**: Medical Imaging, Computer Vision

INTERNSHIPS

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

📅 Jun '17 — Aug '17   📍 —   ○ ⬀

- Designed and built 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 — Jun '19

- Worked on an in-house learning management system used by students and faculties at IIT Bombay
- Improved throughput of system from 8 req/s to 154 req/s
- Dockerized entire platform for ease of deployment and hardened security
- Load balancing for the entire platform using HAProxy and added support for horizontal 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*.

PROJECTS

ASSR: Automatic Stuttered Speech Recognition ○ ⬀

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

Resource Provisioning of LXD Containers ○ ⬀

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

EDUCATION

IIT Bombay
M.Tech. in Computer Science & Engineering

📅 Jul '16 — Jun '19

LNMIIT, Jaipur
B.Tech. in Computer Science & Engineering

📅 Jul '11 — May '15