

Vihang Dudhalkar

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OBJECTIVE To embark on a computing career with enriching experience in an environment steeped in programming and technological excellence.

RESEARCH INTERESTS High Performance Computing, Grid Computing, Parallel Programming

PUBLICATIONS AND CONFERENCES **Grid and Fabric Monitoring Integrated for gLite-based Sites:**
International symposium for grid computing,
March 26-29 2007, Academia sinica Taipei, Taiwan.

End-user viewpoint of the EGEE infrastructure using GridICE, An advanced Storage Monitoring tool.
EGEE User Forum,
May 9-11 2007, Manchester, United Kingdom.

Recent evolutions of GridICE: A monitoring tool for grid systems.
Proceedings of the workshop on Grid monitoring 2007,
June 25-25 2007, Monterey, California, USA.

Design Principles of a Web Interface for Monitoring Tools, Next Steps in the Evolution of GridICE: a Monitoring Tool for Grid Systems,
Monitoring the user/application activities on the grid.
CHEP 2007,
September 2-9 2007, Victoria, Canada.

PROFESSIONAL EXPERIENCE **Politecnico di bari,** Bari, Italy
Research Associate

May, 2006 – 2007

- Developed FTS and dCache Monitoring system.
- Worked on migration of GridICE to newer version of lemon sensors.
- Initiated and developed galfuse, a Fuse based file-system to provide seamless user interface to grid storage.
- Wrote a plugin for Parrot, to achieve seamless user interface through complete userspace.
- Wrote downloadlftp.sh to automate database downloading, indexing and uploading. Also automated various tasks for monitoring and deployment of various softwares in grid environment.
- Ported various softwares to grid environment.
- Maintained and deployed various softwares related to Grid Infrastructure.
- Wrote various programs/scripts for performance testing.

Centre for Modelling and Simulations, Pune, India

System Admin/Instructor

June, 2005 – Feb, 2006

- Worked on optimization of various resources to gain high-throughput.
- Experimenting with globus toolkit.
- Testing various cluster specific Linux distributions.
- Taught concepts of C and Parallel programming to Diploma students.

EDUCATION

University of Pune, Pune, India

MSc. Space Sciences, 2005

- Dissertation topic: *Numerical Models of Various Candidates for Quintessence using Dark-CODE*
- Advisors: Prof. M. Sami and Dr. S. B. Khadkikar
- Designed a fortran based code, named 'DarkCODE' which was used to simulate the evolution of the universe.
- Received **Mrs. Leela Narayan Pitkar Award** for the research project.
- Built and maintained a 8 node Linux cluster.
- Was given access to PARAM 10000 (100 GF cluster) for hands on experience under NPSF (National Param Supercomputing Facility) technical affiliation scheme by C-DAC (2004-2005).

Mumbai University, Mumbai, India

BSc. Physics / Computer Science, 2003

COMPUTER SKILLS

Programming Languages:

- Expert in C, Perl, Bash scripting, Fortran .
- Beginner in Ruby, Javascript, Python and MPI.

Operating Systems: In depth knowledge of Debian and Redhat based distributions.

REFEREES

- **Dr. D. G. Kanhere**,
Director of Centre of Modelling and Simulations,
University of Pune.
Email: kanhere@unipune.ernet.in
- **Prof. Giorgio Maggi**,
Dipartimento Interateneo di Fisica, INFN,
Bari, Italy. Email: giorgio.maggi@ba.infn.in
- **Prof. A. D. Tillu**,
Department of Atmospheric and Space Sciences,
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