

Contact

www.linkedin.com/in/mandargurav
(LinkedIn)
hpsc-mandar.blogspot.in/ (Blog)
www.iitb.ac.in (Company)

Top Skills

High Performance Computing
CUDA
Scientific Computing

Languages

Marathi (Native or Bilingual)
Hindi (Professional Working)
English (Full Professional)

Honors-Awards

Best Outgoing Student

Mandar Gurav

HPC Developer, Trainer, Mentor
Mumbai, Maharashtra, India

Summary

I help organizations accelerate their scientific computing applications on CPU and GPU platforms.

Expert in CUDA, OpenACC, OpenMP, MPI, Vectorization(AVX).

Application Domains : Atmospheric Modelling, Computational Fluid Dynamics, Circuit Simulation, Robotics, Haptics, Video processing

Experience

Indian Institute of Technology, Bombay
6 years 7 months

Research Engineer
January 2014 - Present
Mumbai Area, India

Working on evaluating scalable, green, faster and accurate numerical algorithms for atmosphere and ocean modeling. It involves investigation of scalable high order numerical algorithms and their suitability for the emerging power efficient computer architectures. Specifically, focusing on Performance evaluation of Discontinuous Galerkin Method on large heterogeneous systems.

Project Engineer
August 2013 - December 2013 (5 months)
GPU Supercomputing Facility at Indian Institute of Technology, Bombay

Parallelization of different scientific codes

- Computational Fluid Dynamics
- Simulation of Distillation Columns
- Simulation of Boilers

MulticoreWare, Inc
Software Engineer
February 2013 - July 2013 (6 months)

High Performance Computing

Project: x265 (www.x265.org)

x265 is an open-source project and free application library for encoding video streams into the H.265/High Efficiency Video Coding (HEVC) format, and is released under the terms of the GNU GPL.

Indian Institute of Technology, Bombay
Research Staff

July 2011 - January 2013 (1 year 7 months)

at HPC Laboratory, Electrical Engineering Department

Parallelization of different scientific codes

- Computational Fluid Dynamics
- Circuit Simulation
- Realtime Haptics interaction

Walchand College Of Engineering, Sangli

Research Assistant

August 2009 - July 2011 (2 years)

Research Assistant at Walchand College Engineering, Sangli for the "High performance computing" Project.

Education

Indian Institute of Technology, Bombay

Doctor of Philosophy (PhD), Parallel Computing · (2014 - 2020)

Walchand College Of Engineering, Sangli

B. E., Computer Science and Engineering · (2005 - 2009)