Shreyas Moudgalya

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EDUCATION

Illinois Institute of Technology, Chicago, Illinois, USA — Aug 2014 – Apr 2017

Bachelor of Science (B.S.) in Computer Science

Specialization in Distributed & Cloud Computing, Minor in Applied Mathematics
- Distributed & Parallel Computing, Operating Systems, Data Communications, Data Structures, Systems Programming, Assembly Programming, Circuit Analysis, Digital Systems, Discrete Mathematics
- **GPA:** 3.89 / 4.00

SKILLS

- **Languages:** SQL, Java, Python, C, LaTeX, Mathematica, MATLAB, , MIPS, HTML/CSS, JavaScript.
- **Frameworks:** OpenMP, pthreads, MPI, CUDA, MapReduce, AWS/Azure, Linux, Git, Emacs, Flask.

EXPERIENCE

SPEAR (Systems for Performance, Energy, and Resiliency) Group — Sep 2016 – Present

Undergraduate Research Assistant
- Working on simulating and implementing power aware window based scheduling to the SLURM Scheduler.
- Wrote Python scripts using the PySlurm API to implement a 0-1 Knapsack Problem for selecting the best case scenario for maximum system utilization under powercap threshold.

Data-Intensive Distributed Systems Laboratory — May 2016 – Sep 2016

Undergraduate Research Fellow
- Wrote Java code for implementing a linear runtime algorithm for graph partitioning based on Label Propagation. The algorithm was written to partition a billion node Graph on GRAPH/Z.

Zookks Incorporated — Sep 2014 – May 2016

Software Engineering Intern
- Worked on the Python backend development using the Flask Framework.
- Designed an ER database model for modelling the domain, Implemented an SQL script that creates the database, and Implemented the app to enable a user to store, manipulate, and query the database.

National Instruments — May 2015 – Sep 2015

Hardware and Graphical System Design Intern
- Wrote system software using LabVIEW for Patient Care and Monitoring System Signals.
- Used DAQ (MyDAQ and MyRIO) to collect, analyze and process real time Patient Data.
- Used NI Multisim and NI Ultiboard for Circuit and Power Analysis.
- Certified as LabVIEW Associate Developer.

Computer Science - College of Sciences — Aug 2015 – Jan 2016

Teaching Assistant
- Grade lab exercises and create project assignments for Object Oriented Programing in Java.
- Evaluated assignments and provided written code reviews for assignments.

ACADEMIC AWARDS

- **Experiencing HPC for Undergraduates Program** — Nov 2016
  Selected among the top 29 students in the United States to participate in the SC 2016
  (The International Conference for High Performance Computing, Networking, Storage and Analysis).

- **Dean's List**, College of Sciences — 2014 – Present

- **International Student Scholar** - Scholars Program — 2014 – Present
  $120k tuition scholarship for undergraduate studies at Illinois Institute of Technology.

- Dean Betts' Summer **Undergraduate Research Fellowship**. College of Sciences. — May 2016
  Selected among the top 7 students for a 10 week research with faculty to gain invaluable hands-on research experience.

ACHIEVEMENTS

- Selected as **Microsoft Student Partner** to represent Microsoft at Illinois Institute of Technology.
- Selected among 120 students over Midwest Region for **Campus 1871** [April 8-10, 2016].
- Won Honorable Mention ($200 Cash), **CS2050 Big Data Hackathon**
- Won 2nd Place, StartUp Illinois Tech, Collegiate Entrepreneurs' Organization Pitching Competition.
- Won **Gold** Medal, International Standard of Abacus Mental Arithmetic, Malaysia Book of Records.
- Chosen by the **Government of India** to participate in one week Internship Program at **Inspire Science Internship Camp**, Christ University.
- Chosen for the **UK-India Education and Research Initiative** (UKIERI) Student Exchange and Collaboration Program.