Shreyas Moudgalya

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EDUCATION

Illinois Institute of Technology, College of Sciences | Aug 2014 to May 2017

- B. S. in Computer Science | GPA: 3.894, Dean's List [Aug 2014 to Present]
- Minor: Applied Mathematics | Specialization: Distributed and Cloud Computing

EXPERIENCE

SPEAR (Systems for Performance, Energy, and Resiliency) Group

Undergraduate Research Assistant, Sep 2016 to Present

- Simulated/Implemented power aware window based scheduling to the SLURM Scheduler.
- Wrote Python scripts (PySlurm API) to implement a 0-1 Knapsack Problem to select the best-case scenario for maximum system utilization under power cap threshold

Data-Intensive Distributed Systems Laboratory

Undergraduate Research Fellow, May 2016 to Sept 2016

- 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

Software Engineering Intern, Sept 2014 to May 2016

- 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

Hardware and Graphical System Design Intern, May 2015 to Sept 2015

- 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.

PROJECTS

Siri Style Resume

- Used API.ai API's to integrate my personal website with a Conversational Chatbot User Experience Platform to create a Siri Style Resume.

SmartBar

- Wrote Java and XML code for implementing a SmartBar Android App - A weightlifting bar that can record real time data about a weight lifters workout. The mobile app would take data produced by the smart bar and seamlessly keep track of a lifters workouts and overall progress.

SKILLS

Languages: SQL, Java/Android, Python, C, LATEX, MATLAB, MIPS, HTML/CSS, JavaScript
Frameworks: OpenMP, pthreads, MPI, CUDA, MapReduce, AWS/Azure, Linux, Git, Emacs, Flask

ACHIEVEMENTS

- Selected (top 29) students in the United States to participate in the International Conference for High Performance Computing, Networking, Storage and Analysis.
- Selected (top 60) to participate in the Pitching Conference of National Conference of the Collegiate Entrepreneurs Organization (CEO)
- Selected (top 7) for Dean Betts' Summer Undergraduate Research Fellowship for a 10-week research with faculty to gain invaluable hands-on research experience.
- 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.