SHREYAS MOUDGALYA

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EDUCATION

Bachelors of Science - Computer Science   August 2014 - May 2017
Minor - Applied Mathematics || GPA: 3.85/4.0 || Dean's List (all semesters)
Illinois Institute of Technology, Chicago, IL

WORK EXPERIENCE

Systems for Performance, Energy, and Resiliency

Research Assistant   September 2016 to – January 2017

- Implemented a power aware window based scheduling plugin to the SLURM Scheduler.
- Integrated a 0-1 knapsack in the PySlurm API on top of SLURM running a Docker CentOS 7.
- This Green computing approach will save over $100 per addition 1MWh used.

Data-Intensive Distributed Systems Lab

Research Assistant   May 2016 – September 2016

- Implemented a linear runtime graph partitioning algorithm based on Label Propagation.
- This was the first ever usage of the algorithm which was written to partition a billion node graph on GRAPH/Z.

Zookks Incorporated

Software Engineering Intern   September 2014 – May 2016

- Worked on the Python backend development using the Flask Framework.
- Designed an ER database model for modeling 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 System Design Intern   May 2015 – September 2015

- Wrote system software using LabVIEW for Patient Care and Monitoring System Signals.
- Improved the real time patient data processing by 20% using DAQ (MyDAQ and MyRIO).
- Analyzed the Circuit and Power Measurements using NI Multisim and NI Ultiboard.Help customers purchase electronics.

SKILLS

Programming Languages: Java, Python, C, SQL, LaTeX, MATLAB, MIPS, HTML/CSS.
Familiar: OpenMP, Android, MPI, CUDA, AWS/Azure, Linux, Git, SOAP, REST, Flask.

PROJECTS

Diabetic Retinopathy - Analyzed retinopathy data to detect onset of Diabetic Retinopathy. Built various learning models using numpy, pandas, statsmodels, and mathplotlib.

SmartBar - Collaborated on implementing a weightlifting bar bluetooth synced app for Android to keep track of a lifters workouts/overall progress.

SELECTED ACHIEVEMENTS

- Finalist, MinneHack 2017 (top 6)
- Selected (top 29) students in the United States to participate in the International Conference for High Performance Computing, Networking, Storage and Analysis (SuperComputing 2016).
- 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.