Shreyas Moudgalya

3522 South State Street, Apt 307, Chicago, Illinois 60609, USA

smoudgal@hawk.iit.edu • +1 (630) 561-4088 • www.shreyasmoudgalya.me

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/Android, Python, C, LATEX, 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.

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**
- Won 2nd Place, StartUp Illinois Tech, Collegiate Entrepreneurs' Organization Pitching Competition.
- $120k tuition scholarship for undergraduate studies at Illinois Institute of Technology.

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 weightlifters workout. The mobile app would take data produced by the smart bar and seamlessly keep track of a lifters workouts and overall progress.