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

SAP Labs LLC
Software Developer   September 2017 to Present

- Microservices on machine learning backend for Ariba material proposal for contracts. Implemented abacus metering, data cleaning, data validation, minio s3 and asynchronous polling.
- Implemented user alerts on guessed, unresolvable, unused recognized parameters, parameter correction and NLP query results sorting with coreference, search selection list on OData agent, sort based query parameters for the OData service, JGit integration for tenant onboarding.

Argonne National Laboratory
Research Intern   May 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.

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.

SKILLS

Programming Languages: Java, Python, C, SQL, LaTeX, MATLAB, MIPS.
Tools: Microservices, Android, Git, Flask, Alembic, Nameko, RabbitMQ, MongoDB, Cloud Foundry, SQLAlchemy, PostgreSQL, Docker, Testing, Jenkins, JMeter, Taurus Testing, AWS, Heroku, Minio.

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.