

Asoke Datta

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OBJECTIVE ◇ To obtain an internship position for summer 2020 that will allow me to improve my current skills in programming and Machine Learning.

EDUCATION ◇ University of California, Merced August 2018 - Present
PhD in Electrical Engineering and Computer Science CGPA 3.76

◇ Leading University, Sylhet Jan 2010 - Dec 2013
Bachelor of Science, Computer Science and Engineering CGPA 3.37

EXPERIENCE ◇ Accenture Aug 2014 - Nov 2017
Infrastructure Associate Location : Dhaka, Bangladesh

Responsibilities includes -

- 1) System administration and operation for Windows and VMware server.
- 2) Ensure performance and high availability for major applications and services to minimize downtime and continuous support for H/W and Operating System.
- 3) Ensure successful Data Protection of all agreed applications as per customer SLA.
- 4) Deploy systems with respect to application requirements.
- 5) Problem Troubleshooting.
- 6) Documentation Reporting as per Service requirements.

Achievements :

- 1 - Employee of the year in a 10+ person team.
- 1 - Employee of the month.
- 1 - Recommended for promotion.

RESEARCH ◇ University of California, Merced Aug 2018 - Present
EXPERIENCE Research Assistant Florin's Database Lab
Working on Database query optimization more specifically finding good join order for a given query. Also exploring different Machine Learning techniques for join order selection.

Achievements :

1. NorCal DB 2019 | Poster : Yesdaulet Izenov, **Asoke Datta**, Jun Hyung Shin, Florin Rusu. Sketch-based Join Order Selection for In-Memory Database Systems.
2. 45th International Conference on Very Large Data Bases 2019 (Volunteer)

COMPUTER ◇ Language : C, CPP, Python, Java
SKILLS
◇ Database : Oracle, DB2, MonetDB, PostgreSQL, SQLite
◇ Parallel Programming : CUDA, OPENMP, MPI, Cilk
◇ Profiling tool : PAPI, gprof, valgrind

SELECTED ◇ Baseball Elimination : Baseball Elimination is a classic problem of MaxFlow Mincut algorithm. Given the
PROJECTS standings in a sports league at some point during the season, goal is to determine which teams have been mathematically eliminated from winning their division.
Language : CPP | Team members : 2

My Contribution : Design Program Flow, Implement MaxFlow Algorithm(FordFulkerson Algorithm)

Github : github.com/Asoke26/Baseball-Elimination

- ◇ Neural Network-based Approximation to Improve Performance of SOFC tool: SOFC is an electrochemical conversion device that produces electricity directly from oxidizing a fuel. We developed a MLP model using tensorflow to approximate SOFC simulation result.

Approximation Accuracy : 78 Percent | Tools Learned : Tensorflow, openfuelcell, cantera

Language : Python | Team member : 3

My Contribution : Develop and tune model using tensorflow.

Github : github.com/Asoke26/OpenFuelCell

TEACHING
EXPERIENCE

- ◇ University of California, Merced

Teaching Assistant

Aug 2018 - Present
Database Systems

- 1) Conducted lab of 60 students twice in a week in Fall 18 and Fall 19.
- 2) Conducted guest lecture.
- 3) Helped students with their project design and development.
- 4) Evaluate student performance.