Sudeep Reddy Gaddam

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https://github.com/sudeepgaddam/
http://bitbucket.org/sudeepgaddam
http://plaza.ufl.edu/sudeepgaddam/
linkedin.com/pub/sudeep-reddy-gaddam/26/938/292

EDUCATION

University of Florida, Gainesville, FL
MS, Computer Science and Engineering, Jan 2015-Dec 2016 GPA: 3.89/4.0
National Institute of Technology, Calicut, Kerala, India
Bachelor of Technology, Computer Science and Engineering, 2008-2012 GPA: 7.5/10

PROJECTS

Database Implementation in C++: Designed and implemented a single-user Database System that supports some of the relational operators and aggregate functions like Select, Project, Join, Group By, Sum, Distinct.Concepts include Two Phase Multi-way Merge Sort, Sort-Merge Join, Query plan generation and Query execution.

P2P File sharing System based on Bit-Torrent Protocol: Implemented Simplified Bit-torrent protocol for P2P file sharing using Pthreads, sockets and e-poll for socket I/O polling. Concepts include Preferred Neighbours, Round robin unchoking.

NIST DataScience Pre-pilot Evaluation: Performed Data cleaning using Map-Reduce and Forecasting accidents and incidents in a given bounding box in a given time interval using regression models in python scikit-learn.

Page-rank Algorithm on Wikipedia using Map-Reduce: Wrote Map Reduce jobs to compute outlink adjacency graph and page rank scores for wikipedia articles. Executed on Amazon AWS EMR.

Server support of Subset of Facebook REST API's: Implemented CRUD REST API's for User, Page, Photos, Albums and Friends using In-Memory Key Value Store. Focused on scaling Requests served per second and Enforcing Security constraints. Tools:Scala,Akka Actor Model and Spray Routing.

COMPUTER SKILLS

Languages: C, C++, Python, GO, SCALA, Bash, SQL, LaTeX.
Applications: Vi/Vim, Eclipse, Git, GDB, Caffe, Hadoop, Amazon AWS EMR,

COURSES

Computer Networks, Distributed Operating Systems, Analysis of Algorithms, Database Implementation, Introduction to Data Science,Machine Learning, Advanced Systems Programming, Advanced Data Structures

EXPERIENCE

Software Developer Ericsson R&D, Bangalore, India.
July 2012 - Dec 2014 C
Worked in SNP4000 Linecard Protocol dev team on NGL2 and ECOLAG protocols
NGL2: Worked on development of Range VLAN Support,Local and Pseudowire Cross-connects, VLAN Rewrites, MPLS L2VPN and CLI commands.Worked on resolving critical issues during development phase and System Testing which helped in scaling up the number of VLAN circuits.
ECOLAG: Worked on development of PPPOEv4 and CLIPS protocols to support Economical LAG feature.

Student Assistant,S3 Lab University of Florida
June 2015 - Till Date Python, Caffe
Working on detecting broad dust absorption bumps by applying Convolution Neural Nets to labelled Spectroscopy data. Achieved 94% accuracy in detecting bumps.