Meghana Madineni

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EDUCATION

UNIVERSITY OF FLORIDA
M.S in Computer Science
Expected May 2018 | Gainesville, FL
GPA: 3.5 / 4.0

VNR VJIET
B.Tech in Computer Science
May 2014 | Hyderabad, India
Cum. GPA: 3.84 / 4.0

LINKS

Github:// **meghanamadineni**
LinkedIn:// **meghanamadineni**

COURSEWORK

GRADUATE
Analysis of Algorithms
Advanced Data Structures
Internet Traffic Measurement
Programming Language Principles
Distributed Systems
Software Engineering
Bioinformatics

UNDERGRADUATE
Computer Networks
Operating Systems
Unix Tools and Scripting

SKILLS

PROGRAMMING
C • C++ • Java • Elixir
JavaScript • Python
WEB DEVELOPMENT
HTML• CSS • AngularJS
DATABASE
Oracle• MS Sql • Mongo DB • Sybase
OPERATING SYSTEMS
Windows • Linux • HP • AIX • Solaris

CERTIFICATIONS

COURSERA COURSES IN DATA SCIENCE
R programming
The Data Scientist's toolbox
IBM DB2 ACADEMIC ASSOCIATE
DB2 Database and Application Fundamentals
MONGODB
Certified Developer Associate Level

EXPERIENCE

CA TECHNOLOGIES | Software Engineer
June 2014 – July 2016 | Hyderabad, India

- Worked with Product development team of CA Workload Automation AutoSys-an automated job control system that lets you manage workload (scheduling, monitoring, and reporting).
- Worked on RESTful Web services, integrated HADOOP job types and implemented Single Sign-On Wallets with Certificates for Database Access for Oracle.
- Worked on UUJMA and provided fixes for the defects raised by the customers.
- Adopted Test Driven Development and Agile methodologies. Automated test suites and upgrade testing.Developed and integrated unit tests as part of daily builds.

ENRICH IT | Intern
Dec 2013 – April 2014 | Hyderabad, India

- Worked on Purchase Order Approval Application. It is a mobile application version of web portal which enables managers and purchase order approvers to review, approve or reject purchase orders on a mobile device.

NAVAYUGA INFOTECH | Intern
June 2013 – July 2013 | Hyderabad, India

- Implemented Legal Management System. This is a web application which was built using JSP and HTML web pages with Microsoft Access database at the back end that maintains the legal records and generate reports.

PROJECTS

GOSSIP SIMULATOR
Created a gossip simulator using Elixir and Actor model to determine the convergence of gossip and push sum algorithm. This was tested on the following four network topologies namely Full Network, 2D Grid, Line and Imperfect 2D Grid.

BITCOIN MINER
Designed a bitcoin miner, a distributed system application that generates bitcoins using Actor model in Elixir by applying SHA-256.

COMPILER
Implemented a compiler for a small programming language. Target language is java bytecode. ASM bytecode framework is used for bytecode generation.

MOST POPULAR SOCIAL MEDIA HASHTAGS
Implemented a project to extract the most popular hashtags on social media. Given the hashtags and number of top hashtags needed, returns those many top frequent hashtags. Fibonacci heaps are implemented as part of this project.

LSB STEGANOGRAPHY
Implemented LSB Steganography based on an IEEE paper "Implementation of LSB Steganography and Its Evaluation for Various Bits". The least significant bits of image pixels are modified to store text information during encryption and extracts the embedded text during decryption.

ESTIMATION OF INTERNET TRAFFIC FLOW CARDINALITIES
Implemented Linear Probabilistic Counting, HyperLogLog, FM Sketch and Virtual Bitmap algorithms and tested it on real-time internet traffic traces from CAIDA.

MARKOVIAN-TWEETS
This tweets based on user's past tweets using Markovian sentence generation technique. Tweets from a user are taken as input and a new sentence is formed using Markovian sentence generation algorithm, where next word is generated based on the probability of occurrence after the current word.