DEEPAK MELUGIRI

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EDUCATION

Missouri University of Science & Technology - *Masters of Science in Computer Science*　　　　*Dec 2017*

Courses: Introduction to Algorithms, Big Data Management and Cloud Computing, Advanced Topics in Data Mining, Heterogenous and Mobile Databases, Pervasive Computing, Cryptography, ERP Design - Implementation, Advanced topics in Wireless Networks

Sri Indu College of Engineering and Technology - *Bachelor of Technology in Computer Science*　　　　2013

WORK EXPERIENCE

Missouri University of Science & Technology - *Graduate Teaching Assistant.*　　　　2016 - Present
- Assist faculty members with classroom instruction, exams, record keeping, and other miscellaneous projects.

CenturyLink – *Summer Intern, SQL Developer.*　　　　Summer 2017
- Extracted data by optimizing diverse SQL queries to create analytical reports used by internal business
- Validated accuracy of data to ensure database integrity and helped troubleshooting common database issues.
- Automated daily, weekly, monthly report generation using VBA and SQL making the process more efficient.
- Volunteered in various CenturyLink events.

Accenture Services – *Associate Software Engineer.*　　　　2014 - 2015
- Involved in data migration from legacy system to Target systems using ETL tool such as SAP BODS
- Created complex Jobs, Work Flows, Data Flows, Scripts, custom functions, and Data stores and used various Transforms and validations to successfully load legacy data to the Implemented systems.
- Well understanding of Source systems like Hadoop, HBase, MongoDB, ERP, SQL, Oracle, Salesforce etc.
- End to end understanding of data warehousing (Star, Snowflake etc.) and data modelling (conceptual, logical, physical).
- Participated in workshops with clients to understand the requirement/source system analysis.

Osmosys Solutions – *Junior Software Developer.*　　　　2013
- Developed web applications using .NET technologies, C#, jQuery, HTML and CSS.
- Involved in gathering requirements, analysis, design and development of the applications.
- Determined and resolved critical issues and bugs in the software in a timely fashion before code release.
- Documented coding guidelines/application code/configuration of application

ACADEMIC PROJECTS

- **Analysis of restaurant recommender systems** – Predictive analysis is an active topic in the field of Data Mining. Currently, we are working on building a recommender system for restaurants using various algorithms to predict the ratings given by visitors.
- **Twitter data analysis** – Built a crawler to collect Real time Twitter Data using Python. Analyzed the data to find interesting patterns for presidential elections using MapReduce and MongoDB. Used ggplot & R programming for data visualization.
- **Yelp* data set challenge** – Analyzed active users in terms of their reviews and interested business domains using the data set provided by Yelp*. Extracted tips from reviews using Natural Language Processing, Sentiment Analysis, and Text Mining techniques. Used Hadoop, MapReduce, MongoDB, and R programming to implement the project.
- **ERP simulation game: logistics** – Participated in ERP simulation and learned the underlying SAP ERP implementation on an organization. Gained experience on full integration of all the business processes such as procurement, pricing, material transfers etc. Analyzed transactional data, using customized reports to make business decisions and ensure profitability.
- **Advanced encryption standard (AES)** – Implemented the AES algorithm to enable encryption and decryption of a plain text using C# language. Developed web application using ASP .NET Web Forms as a GUI for interaction with AES algorithm.
- **Testing big data systems** – Survey on the requirements, challenges of testing for big data software development, limitations of the existing test practices, HADOOP framework and testing methodologies used in this framework to overcome the existing challenges.
- **TDMA-based real time mac protocols for wireless sensor networks** – A short overview on the state of art of TDMA, different algorithms in TDMA, TDMA techniques useful to develop a MAC protocol, research challenges and a brief survey on several protocols using TDMA mechanisms.

SKILLS

Database & Tools: Oracle, MySQL, NoSQL, Hadoop, Mahout, HBase, MongoDB, Hive, SQL Developer
Web Technology: ASP .NET, HTML, CSS, JavaScript, jQuery, Bootstrap.
Programming: Python, C#, R, Java, C, C++, VBA
ERP & ETL: SAP BODS, SAP ECC: FI, MM, SD, PP, CO, HR, Tableau, Informatica.
Productivity & OS: HP ALM, TFS, Jenkins, Visual Studio, Windows 7-10, Linux, Unix
CRM: SalesForce

CERTIFICATIONS

SAP Certified Application Associate – Data Integration 4.2X　　　　2016