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Hasanth Sista

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EDUCATION

Master of Science in Computer Science, *The University of Texas at Dallas*   **GPA – 3.55**   Expected Dec 2019

- *Relevant Coursework*: Design and Analysis of Computer Algorithms, Web Programming Languages, Machine Learning, Big Data Management and Analytics, Artificial Intelligence, Natural Language Programming

Bachelor of Engineering in Electrical and Electronics Engineering, *CBIT*   **GPA – 80.98**   May 2015

LANGUAGES AND TECHNOLOGIES (*- Exposure)

Programming Languages: Java, Python, JavaScript, PHP   **Frameworks and Technologies:** J2EE, SAP BW, jQuery, React,
Version Control Systems: Git, SVN   NodeJS, Angular, Spring, Symfony, Hadoop*, Spark*, Big Query
Databases: MySQL, Oracle, MongoDB   **OS and Cloud:** Windows, macOS, Ubuntu*, AWS*, GCP*
Tools and IDE: VS Code, IntelliJ, Scikit-learn, SAP BEx, Tableau, Power BI, Jira*, SQL Data Tools*

PROFESSIONAL EXPERIENCE

Software Engineer Intern   **The Home Depot**   May 2019 – Aug 2019
- Planned, Designed, Proposed and Developed a working solution for the problem statement.
- Statistical Analysis on large datasets in **Google Big Query** which helped in detecting various trends.
- Designed a **Bot** which is integrated with **Slack** that exposed various functionalities using slash commands.
- Full Stack web application development using **React Redux** and **Spring Boot**.
- Designed, created and maintained database structures in Big Query and MySQL.

Software Engineer   **waveXchange**   Sep 2018 – April 2019
- Full stack web application development using **Angular 6** and **Node JS**.
- Designed the **UI/UX** of the web application by understanding software requirements and documenting them.
- Designed, created and maintained database structures using MySQL workbench.
- Infrastructure development on **AWS** by employing services like EC2, RDS, IAM, S3 and VPC.

IT Intern   **ARC International**   May 2018 – Aug 2018
- Full Stack web application development using **Symfony** Framework (**PHP**).
- Designed, created and maintained database structures using Microsoft SQL Server Management Studio.
- Created reports for multiple datasets (Cubes in **Analysis Services**) using Microsoft **Power BI** tool.
- Automated the process of Freight Uploading using **Java** improving efficiency from 22% to 99% and saving $10k yearly.
- Designed the user interface of an app by gathering business requirements using **Angular 5**.
- Designed new reports by gathering requirements through analyzing data from Report Server (**SSRS**).

Systems Engineer   **Infosys Limited**   Sep 2015 - Jun 2017
- Implemented web applications using **Java Enterprise** which involved project management and database management.
- Back end development of web applications using **J2EE (Hibernate).**
- Worked on InfoCubes, Data Store Objects and queries in **SAP Business Warehouse** systems.
- Modified and tested queries using **Business Explorer Query Designer**.
- Analyzed queries through generated reports using **Business Explorer Analyzer** and project documentation.

PROJECTS

Question Answering System – Python, NLTK, Spacy, Solr
The project is about providing answers to fact-based questions that are given, based on Wikipedia documents. Extracted linguistic features for sentences using **NLTK** and **Spacy** libraries to store in **Solr** to extract answers using elastic search.

Artificially Intelligent Cat and Mouse Game
Designed a game using Minimax Algorithm with and without Alpha Beta pruning.

Tech Store Project – Angular 5, MongoDB, Node JS, Express JS, Bootstrap
Re-engineered a Tech-Store website by following single page application design and implemented operations for users to purchase products and for admins to maintain inventory. Also, developed features such as cart management system, login/signup, paging, checkout, product filtering.

Google Analytics Customer Revenue Prediction – Scikit learn, Matplotlib, Machine Learning Models
Pre-processed and normalized data which was used in evaluating models like Neural-Net, Ada-boost, Support Vector Machine using non-linear kernel, Random forest using sklearn. Summarized features in data set and displayed using pie charts and bar graphs by adopting matplotlib. Root mean square error was 0.001 which was in top 500 with an accuracy of 96%.

Library Management System – JAVA, Hibernate, MySQL, JSF, jQuery, JavaScript
Created database structures using MySQL to store library records and developed application to interact with the database. Implemented features to search catalog, check availability, loan books and track overdue fines.

Poker Hand Prediction – Spark streaming, Scikit learn
Pre-processed, normalized and streamed data to train Ensemble models like Random Forest and Gradient Boosting which predicted which poker hand combination would result in a winner and obtained an accuracy of 76%.