DEEPAK DHANKANI

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SUMMARY

I am a **data engineer** with experience in *designing*, *configuring*, and *implementing* **end to end analytics solutions**. I work on a wide breadth of technologies with developers, solution architects, and consultants to deliver data insights to clients. My day to day work involves **ETL development**, **automation scripting**, and **cloud infrastructure management** for our SAAS platform.

WORK EXPERIENCE

Model N, Life Sciences Division, Waltham, MA   Nov '16 – Present
Associate Consultant, Data Engineering Team
- Created an integration process (using Informatica) that ties disparate data from multiple sources.
- Led the cloud data migration from data center to AWS and leveraged AWS features to optimize the data processes.
- Configured continuous integration pipelines on JENKINS to automate data processes.
- Worked on challenges involving data inconsistencies, missing data, and other bugs in ETL process (using SQL/Alteryx).
- Collaborated with consulting team to create BI dashboards (using Tableau) as per client's business needs.

Halliburton Energy Services, Houston, TX   Jan '15 – Aug '15
Mechanical Engineering Co-op
- Modified and automated metrology testing and logging procedures (using Python) to increase efficiency by 50%.
- Developed and automated a model, which yielded projections of complex cutting areas by programming in VB.NET.

Turbomachinery Lab, College Station, TX   Sept '13 – Sept '14
Undergraduate Research Assistant
- Assisted in making improvements to the backend FORTRAN code of the software based on research data.
- Analyzed results to produce characteristics of two phase flow under varying pressures and compositions.

Emerson Process Management, Houston, TX   May '13 – Aug '13
Mechanical Engineering Intern
- Developed a procedure to estimate the uncertainty in flow measurement which led to savings of $40,000/year.

SKILLS

ETL: SQL Server, Alteryx, Informatica, SSIS.
Programming languages: C++, Python, VBA.
AWS Technologies: Redshift, EC2, S3, Athena, VPC, DynamoDB.
Web Development: HTML, CSS (Bootstrap), JavaScript (JQuery), AngularJS, MongoDB.

PROJECTS

Local Market Intelligence Application
- Worked with a team to develop an application that provides sales analytics from national to local market level.
- Got exposure to entire project life cycle ranging from requirement gathering phase to consulting.

Project Management for City of Bryan, Texas
- Led a team to devise work plans, schedules, and resource allocation to help improve water storage and supply.
- Delegated the design projects and plans to engineers for further implementation.

SpaceX Hyperloop Pod Design
- Worked on concept design of high speed transportation system that can reach speed of 700 MPH.
- Dessigned on board battery management system to support levitation and power system in the Hyperloop Pod.
- Developed electromagnetic field simulation model for linear synchronous motor using ANSYS Maxwell.

Robotic Arm
- Worked with team to design, 3D print, assemble and program a robotic arm which replicated user's finger movements.
- Programmed Arduino to facilitate servo operations which used data from sensors on a remote actuation glove.

Numerical Analysis of Unmanned Aerial Vehicle (UAV)
- Developed a computational model of a UAV strike aircraft using MATLAB.
- Generated performance curves and identified feasible operational range while considering all possible physical parameters.

EDUCATION

Texas A&M University, College Station, TX   May 2016
*Bachelors of Science in Mechanical Engineering (**Minors** – Computer Science, Mathematics)*   Engineering GPA: **3.6/4.0**

INTERESTS

- Taking a graduate class in global sustainability at Yale University on weekends.
- Learning **web development** in free time (https://moneykani.github.io).
- Experimenting in the kitchen, watching college football, and hiking.