Sam Rawal

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QUALIFICATIONS SUMMARY

A deep learning enthusiast, data engineer, data scientist, and SQL Business Intelligence Professional.

More than 7 years of expertise and specialization in design, development and implementation of projects and solving problems related to data integration, data reporting, system engineering with noticeable impact on real-world use cases and customer problems.

Capable, skillful, and proficient in performing data pre- and post-processing, creation of data regression, data and statistical analysis, data modeling, and prediction of the trend and the behavior of data with application in system infrastructure/healthcare domains.

Hands-on experience in programming in **Python, SAS, R, SPSS, and SQL**.

Knowledge of Deep Learning libraries(packages), including **TensorFlow, Keras, PyTorch, Scikit-Learn, NumPy, TensorBoard, and OpenCV**

Committed in engineering and developing secure and authentic data systems and machine learning platforms.

Acquired strong analytical, leadership, problem solving and troubleshooting skills with the ambition to learn new technologies and handle tasks.

Very well verbal and writing skills for communication and being committed to working both as a team member and as independent.

TECHNICAL SKILLS

Languages: C++, Python, R, SAS, MATLAB, Stata, SQL, Julia, Scala

Deep Learning: TensorFlow, PyTorch, Scikit-learn, PIL, Caffe, CNTK, Matplotlib, NumPy, OpenCV, Keras, glob, TensorBoard

Database: SQL Server, Oracle, MySQL, PostGres, BigQuery, MongoDB, Redis, Elastic

DevOps: GitLab, Jira, Docker, Kubernetes, Jenkins, Ansible

Visualization: Seaborn, ggplot, D3, Plotly, Tableau, Visio, Power BI, SSRS, Cognos, QlikView

Operating Systems: Linux, Mac OS X, Windows
Certifications: Azure Associate (Data Scientist, Data Analyst, Data Engineer), Azure Fundamentals

EXPERIENCE

MICROSOFT   LAS COLINAS, TX

BI Consultant/Developer   *May 2019 – Current*

- Defined cloud architecture, design and implementation plans for hosting complex application workloads on MS Azure.
- Architect solutions using MS Azure PaaS services such as SQL Server, HDInsight, service bus, etc.
- Provide technical oversight and guidance during clients' engagement execution.
- Provide Cloud / Azure thought leadership through regular publications and speaking engagements.
- Provide Azure technical expertise including strategic design and architectural mentorship, assessments, POCs, etc., in support of the overall sales lifecycle or consulting engagement process.
- Educate & train customers of all size on the value proposition of managed services on Azure and participate in architectural discussions to ensure solutions are designed for successful deployment in the cloud.
- Advanced knowledge of databases (SQL Server and MySQL) including database administration and performance improvements/optimizations.
- Act as a liaison between customers, sales, service engineering teams, and support
- Develop PowerShell scripts and ARM templates to automate the provisioning and deployment process.
- Participate in internal and customer meetings assisting with the ongoing evolution of technology offerings.
- Provide technical guidance on building solutions using Azure PaaS and other services.
- Troubleshoot and identify performance, connectivity and other issues for the applications hosted in Azure platform.

DFUSE TECHNOLOGIES, INC (CLIENT - US ARMY HUMAN RESOURCE COMMAND)   FORT KNOX, KY
Sr. SQL Developer   Dec 2018 – May 2019

- Conducted multi-sourced data extraction and performed **data cleansing and profiling operations** to create a consolidated master data management and provided consultation to eventually migrate MDM data to the cloud.

- Trained junior IT personnel on how to design, develop and maintain multiple databases in different data servers.
- Efficiently used **SQL** language to generate desired reports.
- Leveraged **SSIS** to lead a development/ integration project which gathered Army-wide endpoints and tracked vulnerabilities and OS version details.
- Effectively used **Visual Studio DevOps** tools to manage and source control the **continuous integration and deployment** modality of application development.
- Provided data visualization reports and optimization training on Power BI reports.
- Assisted in troubleshooting **customers' connectivity issues with different source data.**

Parkland Hospital   Dallas, TX

Reports/BI Developer   *May 2013 – Sept 2018*

● Designed, developed, and maintained multiple databases in different data servers and generated routine reports based on business requirements, functional and technical specifications, and development standards for assigned projects/applications.
● Developed Power BI reports and dashboards from multiple data sources using data blending.
● Designed Power BI data visualization utilizing crosstabs, maps, scatter plots, pie, bar and density charts.
● Experience in providing Logging, Error handling by using Event Handler, and Custom Logging for SSIS packages
● Experienced in SDLC life cycle for Design, Development and Staging phases for the projects with support of Dataflow, Process Models, and E-R diagrams.
● Maintained log information in the Text file to track errors and recording package execution status. Created Configurations, Checkpoints and Breakpoints
● Designed ad-hoc reports in excel power pivot and shared them using Power BI to the decision makers

SPOT RUNNER/ TECHZINE TECHNOLOGY   **07/ 2012 – 07/ 2013**
Sr. SQL Developer/ DBA

- **Wrote ETL packages to automate periodic activities.**
- Created and maintained different virtual servers for different versions of the application.
- Migrated SQL Server 2005 to SQL Server 2008R2.
- **Designed and developed SSIS package to perform data loads.**
- Created many ad-hoc reports for different requirements using SSRS.
- Used MDX queries with multidimensional cubes.
- Extensively used SQL Profiler, Query Optimizer, and Index Tuning Wizard for query performance enhancement.
- Tuned **SQL stored procedures, queries, and triggers** for performance improvements, performed daily backups and developed recovery procedures.
- Automated the deployment of production, testing and development databases.

FIDELITY INFORMATION SERVICES   **08/ 2011 – 05/ 2012**
Sr. Consultant

- SQL Server 2005/ 2000 database administration.
- Involved in the migration of SQL Server 2000 databases to SQL Server 2005.
- Created new database objects like **tables, procedures, functions, indexes, and views** using **T-SQL** in DEV and PROD environments for SQL Server 2005.
- Implemented disaster recovery models like clustering, mirroring, log shipping and transactional replication.
- Designed and implemented comprehensive backup plans and disaster recovery strategies.
- Involved in troubleshooting and fine-tuning databases for performance and concurrency.
- Maintained database consistency with DBCC, DMV and DMFs at regular intervals.
- Implemented new **T-SQL** features added in SQL Server 2005, such as data partitioning, error handling through TRY-CATCH statement, Common Table Expression (CTE) and snapshot isolation.
- Installed SQL Server 2000/ 2005 on Windows 2003 Advanced Servers and applied services packs and security fixes.
- Developed data models and database designs with development teams.
- Created entity-relationship models to be used with relational databases, **normalizing, de-normalizing, indexing and defining views.**
- Created maintenance plans for regular backups and rebuilding of indexes.
- Tuned slow-running queries using Profiler.
- **Evaluated joins, indexes, updated statistics and code modifications.**
- Used DTA for index, statistics recommendations and made appropriate changes necessary for **building new indexes.**
- Involved in disaster recovery model for database backups and recovery strategies.
- Validated change requests and made appropriate recommendations.
- Modified database structures as directed by developers for QA and DEV environments and assisted with coding, design and performance tuning.

MILITARY EXPERIENCE

UNITED STATES ARMY MEDICAL CORPS   **11/ 2009 – Present**
Officer-in-Charge (OIC) Third Platoon – Reservist (MAJOR)

- Managed/ supervised PLX platoon (Laboratory/ Pharmacy/ Radiology) of more than 40 soldiers.
- Organized and successfully operated all training operations and yearly evaluations of non-commissioned officers in PLX platoon.
- Conducted a drug testing program for the hospital and maintained 100% compliance with the Army substance abuse program.

- Assigned to a multitude of leadership roles such as radiation officer, staking officer, intelligence officer, and Army travel processing officer (**defense travel system).**
- Awarded "The Army Commendation Medal" on multiple annual training missions for exceptional service and outstanding contribution as Field Training Leader.

EDUCATION

- Master of Information System, Murray State University, Murray, Kentucky
- Bachelor of Science, University of Texas at Arlington, Texas
- Graduate of Data Science Bootcamp Program, Divergence Academy, Addison, Texas

PROFESSIONAL AFFILIATIONS

- Member of Veterans of Dallas
- Member of American Society of Clinical Pathologists (ASCP)
- Member of Institute of Electrical and Electronics Engineers (IEEE)
- Member of the American Chemical Society (ACS)

AREAS OF INTERESTS

Deep Learning, Data Science, Artificial Intelligence, Statistics, and Business Analytics.