

## Saif Abdullah

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Data Visualization specialist, former consultant and team lead, capable of end-to-end development of BI reporting needs for both Fortune 500 companies and federal agencies. I am as comfortable gathering requirements from stakeholders as I am participating in pair coding sessions with colleagues. I've learned to use both Power BI and Tableau in order to deliver cutting-edge dashboard designs whilst staying committed to holding my own with respect to data warehouse, ETL and cloud development. In recent times I have focused heavily on custom visual development to address stakeholders' need for more intuitive dashboard design.

### SKILLS

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**Cloud:** AWS Lambda, API Gateway, CodeCommit, CloudFormation, Step Functions, SNS, Amazon RDS, S3

**Languages:** JavaScript, YAML, JSX, AJAX, HTML, CSS, Python, C#, PL/SQL, T-SQL, VBA, DAX

**Frameworks and Libraries:** Vue.js, React.js, Express.js, Django, Mongoose, Bootstrap

**Databases:** MongoDB, PostgreSQL, Microsoft SQL Server, Oracle Database

**Data Integration Tools:** SSIS, Oracle Data Integrator, Power Query, Jupyter Notebook

**Development Tools:** GitHub, CI/CD, Linux Shell Scripting, Visual Studio Code, Chrome Developer Tools

**Business Intelligence:** Power BI, Tableau, SSRS, Oracle Business Intelligence, Endeca

### EXPERIENCE

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#### Data Architect

**IBM / Jun 2020 – Present / Reston, VA**

- Managed the design, development, and deployment of interactive reports and dashboards using Power BI and Tableau to meet the need for enterprise-wide data analytics capability for data-driven decision making.
- Delivered insights into the effectiveness of training curriculum as well as the demand for/cost of classes offered, enabling the VAAA to develop a leaner training program with higher efficacy.
- Built ETL pipelines using VBA macros, shell scripts, SSIS packages, functions and stored procedures on SQL Server to feed data from multiple sources into a single-source-of-truth (SST) data warehouse.
- Presented dashboards to stakeholders and trained users (from analyst through executive leadership) leading to greater customer engagement, generating feedback and co-creation of new ideas for integration into the product roadmap and continued refinement of the SST star schema.
- Documented development work, new discoveries and processes (e.g. a protocol to determine data cleansing needs of a dataset) in order to build a culture of following best practices and shared responsibility.
- Used PowerApps to enable SMEs to update data warehouse tables in a safe and efficient manner.
- Helped developers identify steps to implement technical specifications and monitored their progress through daily standups, code reviews, pair programming, data validation tools and documentation review.
- Added components to Inventory App built on Vue.js to aid different business processes related to tracking and inventorying recycled computers and hard drives. Used Visual Studio Code and AWS CloudFormation.
- Used AWS Lambda to deploy JavaScript modules to query Amazon and eBay Selling Partner APIs for purchase order information to update sales and inventory records in datamart running on Amazon RDS.
- Used Pandas and NumPy to cleanse new data sources, evaluate column quality, distribution, and profiling.

#### Business Intelligence Developer

**Ascent Consulting Company / Sep 2016 – Oct 2019 / Washington, DC**

- Helped launch the Federal Aviation Administration Office of Financial Services' OBIEE reporting platform – a \$4 million program aimed at improving operational efficiency through integrated reporting & analytics – which won the [2019 Federal Aviation Administration AFN Award for Organizational Excellence](#).
- Reviewed internal reports and external data artifacts, in addition to facilitating information discovery through one-on-one stakeholder and larger team meetings in order to identify business requirements.
- Used business requirements to produce technical specifications document outlining how source (OLTP) system, ETL tools, target (OLAP) system, business intelligence software and human resources will be leveraged to fulfill requirements whilst establishing appropriate cadences/dependencies for the work.
- Managed the development of Enterprise Data Warehouse (EDW) implementing aforementioned resources.
- Performed gap analysis and integrated accounting, operations, and asset data to build interactive reports and dashboards for data analytics, enabling speed-of-thought budget management activities for users.

### Business Intelligence Consultant

**BIAS Corporation (Deloitte)/ Jan 2013 – Aug 2016 / Atlanta, GA**

- Validated reports using SQL queries to compare row counts, counts of specific values within categorical columns, min/max/avg values of measure columns, and values of data points selected for spot checking.
- Validated data models by querying row counts, value counts, and value ranges of fact and dimension tables at the appropriate level of granularity in the data model and comparing those to source system counts.
- Implemented best practices and enabled advanced reporting by implementing star schemas in 3NF and using entities such as calendar table, hierarchy table (drill-through), and slowly changing dimensions.

### EDUCATION

<b>Georgia Institute of Technology</b>	<b>Atlanta, GA</b>
MS, Management	2012
BS, Biomedical Engineering	2008

### CERTIFICATES

#### Data Visualization

Microsoft Certified: Power BI Data Analyst Associate 11/2024

#### General Assembly

Software Engineering Immersive 05/2022

- *Built single page applications capable of CRUD actions using MERN stack implementing RESTful routing.*

#### MIT Professional Education

Deep Learning for AI and Computer Vision 07/2020

- *Learned to implement edge detection in a neural network, and how training and testing datasets can be used to train a machine learning model to efficiently recognizing objects in an image.*

Modeling and Optimization for Machine Learning 06/2020

- *Gained conceptual understanding of advanced mathematical concepts such as Gradient descent and Regularization used to formulate, implement and refine machine learning models.*