Abani Mahapatra

Data Architect

**Cell #** (214)-636-0394 **|** [abani.akm@gmail.com](mailto:abani.akm@gmail.com) **|** Las Vegas, NV

[](https://googlecloudcertified.credential.net/profile/72b510b0d1e7b01470955986c889961d7f7bbe65)

[](http://www.linkedin.com/in/abanimahapatra)

**TECHNOLOGIES:**

EXPERT



**DW & BI Tools**: Looker, Power BI, SSRS, SSIS, BIRT Actuate, Jasper/Talend ETL, Apex & Informatica

**Cloud:** GCP- Big Query, Spanner, Bigtable, Cloud SQL, Pub Sub, storage, Azure – Data Factory, Azure SQL Service, Azure Blob

**DB**: Oracle 12C, SQL Server, MySQL & PostgreSQL

**PPM / AGILE Tools.:**  CA Clarity PPM, JIRA, Trello, Confluence, EasyRedmine & Redmine

**Software**: PyCharm, Jupyter, Toad, Eclipse, VSCode, visual studio and DBeaver

**CI/CD**: Jenkin, Git & SVN

INTERMEDIATE



Snowflake Cloud DW,Azure, Hive & HBase

FUNDAMENTAL



AWS, Oracle Cloud and Autonomous Database,

PySpark & NoSQL Database

**CERTIFICATIONS:**

* [Certified Professional Cloud Architect – Google](https://www.credential.net/dbcb792d-1cde-404e-888e-122398785012)
* [Certified Associate Cloud Engineer – Google](https://www.credential.net/d85479ef-2098-4c89-a3f4-012e2b204b89)
* [Cloud Engineering with Google - Coursera](https://www.coursera.org/account/accomplishments/professional-cert/TA95FLVWSPED)
* [Machine Learning for Business Professionals](https://www.coursera.org/account/accomplishments/records/8SDDZ96ZXPAW)
* Pursuing Scrum master Certification
* Pursuing Snowflake Certification

**EDUCATION:**

B. Tech in Electrical Engineering, India - (2002 - 2006)

KIIT University: <https://kiit.ac.in/>

**PROFESSIONAL SUMMARY:**

* Techno-functional professional with Domain expertise: Manufacturing, hospitality, property mgmt. and energy utility.
* More than **13** Years of experience of developing and architecting solution for enterprise Datawarehouse and advanced analytics projects.
* Excellent assertive communicator: leverage technical, business and financial acumen to communicate effectively.
* Mentored various teams in terms of requirement gathering, architecting solutions and technical glitches ensuring team excellence and individual resource performance.

***“Information is the oil of the 21st century and analytics is the combustion engine.” – Peter Sondergaardhjuy, Gartner Research***

**SKILLS:**

* Certified **professional Google cloud architect and Cloud Engineer** to drive strategic cloud initiatives such as; DevOps, storage, cloud migration and data analytics solutions.
* Seasoned in designing, modeling and developing traditional, Cloud Datawarehouse like **BigQuery, Snowflake** with visualization tools like **Looker, Power BI, Tableau, Jasper.**
* Experienced in python programming to enhance any sort of integration, customization in visualization or data analysis using **Python** packages like pandas, NumPy, matplotlib and scikit-learn.
* Possesses extensive hands on software development /deployment experience till date in delivering critical projects.
* Demonstrated experience in leading team spread across multiple geographies ensuring high-quality deliverable within required timeline and cost constraint in **agile and waterfall** methodology.

**PROFESSIONAL EXPERIENCE:**

***Employer: Vertisystem Inc*  May 2013 - Continuing**

**Role:** Data architect

**Key accomplishments:**

* Analyzed the business requirement and discussed about kind of the insights can be produced using PowerBI.
* Setup the DEV environment @ cloud with **Azure SQL Server** **service** as DW and Azure **data factory**.
* Created the data model for the reporting by analyzing the customer data and the current application database.
* Screened profiles and setting up the offsite team who can deliver this solution.

***Client: Diamond Resorts @ (Las Vegas, NV) - Hospitality Domain Employer: Vertisystem Inc* May 2013 – Apr 2020**

**Software:** Jira, Confluence,TRELLO, Toad, SVN**, Git, Jenkin**, VSCode, **Talend ETL,** Redmine, Easyredmine and FileZilla

**Skills:** SQL/PLSQL, JavaScript, AJAX, JQUERY, **Restful API**, **GCP, BigQuery, Looker, Python, SSIS and** Jasper report

***Role:*** *Senior Software Developer and TPM*



**Projects:**

* Large scale IT Initiatives / Advanced analytics (DW/BI – GCP / Looker), OBIEE to Jasper, CSM
* Owner / Club Reservation and Destination Exchange product
* Migration of legacy application and enabled Multilanguage support

**Key Accomplishments:**

* Managed a global team across multiple regions of **10 onsite and 30 offsite** folks across multiple projects geared towards product delivery excellence with the portfolio size > $10 Million / Yr.
* Prepared scrum metrics like **burndown charts, velocity charts, estimation accuracy %, resource loading** etc. for getting a quantifiable status of the portfolio for better decision making. Facilitated sprint planning, daily standups, **sprint reviews, sprint retrospectives** and release planning.
* Implemented **JIRA** for prioritizing the task assignment for our projects. Integrated agile boards and readily available reports helped for better planning, roadmap and decisions. Introduced **Confluence** for data governance project activity for centralized documentation.
* Experienced in database native json features like **json\_table, json\_array,** json\_value, json\_query, json\_exists.
* Delivered **automated unit test scripts in PLSQL** to test our delivered code for better regression testing coverage.
* Setup training and peer-mentoring program for the existing and new hires for the team; **reduced technical debt by 30% and reduced onboarding time for new hires by 80%.**
* **Screened resumes and interviewed** resources for the team for both onsite and offsite team augmentation.
* Executed **proposal** for migrating OBIEE reports to Jasper by saving the licensing cost of amount ~ **90K** per year. Implemented **multilanguage feature** of the legacy application. **Optimized** and secured application with best practices.
* Worked with product owners for effective product management using story mapping techniques.
* Experienced in **Google cloud / Looker** project for advanced analytics initiative. Prepared the team with new skills so that they can help in this new project. Ingested data by **pipelines** using dataflow and orchestrated using **airflow** in GCP to ingest data from **data lake** to **BigQuery** by referencing on-premise database.
* Performed pre-sales POCs for **snowflake** DW product for one of prospect client by hosting it in Google Cloud.
* Modeled flat **wide tables with nested columns** in **BigQuery** dataset to generate insights.
* Successfully completed workshops by **infoworks and looker**. Expertise in **view,** **explore and look ML** models on looker tool. Delivered looker dashboard components such as **look**, model, view with dimension, **dimension groups**, **tiers**, **drilldown reports** and interacting with Looker REST API for custom visualization.
* Maintained a well updated knowledge repository of functional understanding and development best practices to avoid single point of failure.
* Provided solution to client to meet their budget needs with innovative open source IT solution and managed the project with onsite/offsite team. Designed API to run reports in jasper server from legacy application.
* Engineered **POCs** showcasing jasper reporting capabilities of customized reports and dashboards which was a opensource solution to meet budget needs.
* Developed **Restful API** interface using **python** between 2 legacy application for incident and timesheet management.
* **Architected PostgreSQL DB objects like UDFs** and linked servers for data integration for data archival solution.
* Expertise in performance tuning and trained the team to avoid the similar situation.

***Client: Motorola Solutions* @ Holtsville, NY (ManufacturingDomain*) Employer: IGATE Corp.* Aug 2009 to Apr 2013**

***Role:*** *Tech Lead & Subject Matter Expert*

**Skills:** MS SQL Server 2005, Oracle 10g, PLSQL, actuate, Oracle Apex,Toad, actuate, FileZilla, shell scripting, BMC Footprints

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**Project: EMB Data Warehouse**

**Key Accomplishments:**

* Single point of contact as “Subject matter expert” for Actuate reporting and Getpaid (Collection tool from SunGard Technology) application support and enhancement project (RUN/BUILD team)
* **Proactively consolidated the improvement areas** and planned to create a project with senior management to make production system healthy. Took care of product feature deployment and change management process.
* Created **software architecture** and detailed technical design for the assigned projects.
* **Optimized** ETL jobs which was using lot of DBLINKED tables my proper use of hints and with better ETL tool designs.
* **Extensively used Informatica client tools**; Source Analyzer, Warehouse designer, Mapping designer
* Developed different mappings by using transformations like Aggregator, Lookup, Expression, Joiner, Router etc.
* Provided **project health reports and strategize** to improve the reporting needs with management update.
* Attained **100%** SLA expectation, reduced **~30%** cost for supporting the application.
* Dealt with high volume data for **ETL**, **Materialized** view, staging tables helped a lot in this environment.
* **Automated** repeated activities and implemented PMP best practicesto make production health better and improved support calls / issues substantially by **40%**. Supported Unit tests and SIT by fixing any bugs using HP Quality Center.
* Developed complex actuate reports, Oracle DB objects including procedures, materialized views and ETL jobs.
* Mastered features like Data Filters, Single Input Filter, Memory Data Sorter, Dynamic Frames and Controls in different type of reports such **as Summary Detail, Cross-Tab, Sub-reports and Sequential reports**.

**Client: AIMCO @ Denver, CO (Property management Domain) *Employer: IGATE Corp.* Jan 2008 to Jul 2009**

***Role:*** *DW and BI Developer*

**Skills:** MS SQL Server 2005, **SSIS, SSAS, SSRS**, MS Access 2003, Toad, MS SharePoint Portal, BMC Footprints



**Project: Revenue management analytics**

**Key Accomplishments:**

* Designed solution for revenue managers for their unique analytics need to pricing the apartment units.
* Created **SSIS** packages, containers, workflows and scheduled it to upload data from a CSV/XML files to the SQL Server table periodically. Performed transformation and established **SSAS cubes** for reporting need.
* Developed macros using VBA to format the reports. These reports were uploaded to SharePoint and emailed to specific recipients periodically. Expertise in MS Office suite for any quick reporting needs.
* Peer Reviewed the code, demoed the final visualization and validated the data with the stakeholders.
* Setup periodic calls with SMEs to provide status update and risks.