Amzad Hossain

Senior Software Engineer|AWS Solutions Architect
Ellicott City, MD | 347-961-7460 | johnny.hossain@gmail.com
github.com/hossainamzad | linkedin.com/in/hossainmdamzad

SUMMARY

Senior Software and Data Engineer with over 8+ years of experience in designing, developing, and optimizing high-performance data integration solutions using Ab Initio. Expertise in building scalable ETL pipelines and enterprise data workflows using advanced Ab Initio components including Join, Sort, Reformat, Filter-By-Expression, Rollup, Scan, Normalize and Lookup. Skilled in developing and maintaining Ab Initio applications for missions-critical data processing. Skilled in building JavaScript applications using Angular and React.

TECHNICAL SKILLS

ETL and Data Integration: Ab Initio (GDE 4.0.2.2), Talend
Programming and Scripting languages: JavaScript, Java, SQL, Ruby, Unix Shell Scripting, Bash
Frameworks: Node.js, React, Angular, Redux, Express.js, Ruby On Rails, Ember, Sinatra
Hadoop: HDFS, Hive, Sqoop, Oozie, Toad for Apache Hadoop
Scheduling and Workflow: Control-M, Autosys
Front End and Web Development: HTML5, CSS3, SASS, Bootstrap, jQuery
Deployment Tools: Git, GitHub, Heroku, Azure DevOps, Jenkins
Databases: Oracle, SQL Server, MySQL, PostgreSQL, Teradata, Snowflake
Operating Systems: Windows, Mac OS, Linux, Unix
Tools and Platforms: JIRA, Confluence, SharePoint, Microsoft excel, WinSCP, FTP Transfer , Putty
Certification: AWS Certified Solutions Architect-Associate (Expires July 16, 2028)

EXPERIENCE

Cognizant   December 2021-October 2024
Technical Lead – React Developer   May 2024–October 2024
MyTime in Polaris at FM Global   Johnston, RI
- Built MyTime application using React for field engineers at FM Global
- Involved in business requirement gathering for the project
- Met with stakeholders for deliveries
- Worked with the UX team on the design principles and layout of the screens
- Coordinated with the backend team working on the API for MyTime application
- Set up the development environment for MyTime application in Polaris
- Documented the onboarding processes, what software suits needed for the development work and the point of contact for the access issues for the future developers
- Technologies used: HTML, CSS, JavaScript, React, Node, Git, GitHub, Azure DevOps, CLI and API

Senior Associate – Ab Initio Application Developer   December 2022–May 2024
Product Value Stream at Travelers   Hunt Valley, MD
- Developed and supported Ab Initio real time (continuous flows) and batch applications in the production environment in Product Value Stream at Travelers
- Made enhancements to a real time Data Virtualization Ab Initio application. Data Virtualization application is a web service. Teams in Travelers use this web service to request quote and policy related data.
- Used SOAP web serivec(Simple Object Access Protocol)to troubleshoot the data related issues for the data virtualization application(i.e. users reached out to us with a quote or policy number and said that the web service was timing out or throwing different errors having requested information for a quote or policy number)
- Made enhancements to batch graphs in three different projects to meet the business needs
- Troubleshot the failed jobs, found out the root cause of the failures and made code changes accordingly to fix and re-run the jobs/graphs
- Worked with upstream teams to fix source level data issues

- Worked with downstream teams to find out the root cause at the application level to fix the data issues for the real time application, Data Virtualization
- Worked with Ab Initio components such as Join, Sort, Reformat, Filter-by-Expression, Rollup, Scan, Normalize, Lookup
- Worked with Partition components like Partition-by-Round Robin , Partition-by-key, Partition-by-expression to partition the data from serial file
- Worked with De-partition components like Gather, Merge, Concatenate to de-partition data from Multifile
- Promoted Ab Initio code (Ab Initio graphs) to ST, QA, Performance and Production environment
- Created ETL mapping and graphs based on the technical specification document
- Debugged data (Ab Initio graphs) in case of data issues by using Ab Initio debugger
- Created Source DDLs for tables creation
- Developed Ab Initio jobs to Talend (POC work)
- Supported IBMi jobs
- Technologies used: Ab Initio GDE, ConductIt, Unix, Teradata, AutoSys, SQL Developer, SQL Server, SoapUI, Talend, IBMi, Reflection

Senior Associate – Ab Initio Application Developer   December 2021 – December 2022
EMSA at Travelers   Hartford, CT
- Lead an offshore team of five developers to manage and support Ab Initio batch applications in the production environment in EMSA at Travelers
- Made enhancements to batch graphs according to the business needs
- Troubleshot the failed jobs, find out the root cause of the failures and make code changes accordingly to fix and re-ran the jobs/graphs
- Worked with upstream teams to fix source level data issues
- Built tables, added columns to the existing tables according to the business needs
- Worked with Ab Initio components such as Join, Sort, Reformat, Filter-by-Expression, Rollup, Scan, Normalize, Lookup
- Worked with Partition components like Partition-by-Round Robin , Partition-by-key, Partition-by-expression to partition the data from serial file
- Worked with De-partition components like Gather, Merge, Concatenate to de-partition data from Multifile
- Debugged data (Ab Initio graphs) in case of data issues by using Ab Initio debugger
- Created Source DDLs for table creation
- Promoted and tested Ab Initio code in SI, QA, UAT and Production environment (end to end process)
- Created and ran jobs in AutoSys
- Technologies used: Ab Initio, Unix, Teradata, AutoSys, SQL Developer, SQL Server

S&P Global   March 2021 – December 2021
Software Engineer II   New York, NY
- Built web applications using HTML, CSS, TypeScript, JavaScript, Angular, Redux, HTML, CSS for RAP Internal
- Coded the entire RAP application from scratch and demoed it to the teams
- Integrated REST API services to the UI of the applications for RAP Internal
- Worked on Azure DevOps and AWS
- Worked with CLI, and Git for development
- Used Postman to test API services
- Wrote unit test cases in Karma to test code for Angular components
- Collaborated with other teams and stakeholders for project needs
- Worked with UX design teams for UI mockups
- Participated in and conducted peer code reviews

LTI (Larsen & Toubro Infotech)   December 2019 – March 2021
Data Engineer

Project: Citizens Bank Via LTI   May 2020 -March 2021
Data Engineer   Providence, RI
- Performed Jenkins CI/CD process
- Performed Admin tasks for DataStage and Talend jobs as ETL Administrator
- Patched, recycled and monitored Unix servers
- Troubleshot applications in Production
- Migrated DataStage and Talend code/components to SIT, QA, and Prod environment
- Worked on AWS-- S3, EC2, Redshift
- Helped team build a data lake in AWS

Project: Citi Bank Via LTI   December 2019 -May 2020
Ab Initio Application Developer   Tampa, Florida
- Built Ab Initio graphs according to business requirements in the Hadoop environment
- Scheduled and monitored Ab Initio jobs in the Control Center and Control-M
- Did performance tuning and debugged codes for Ab Initio graphs
- Worked with Ab Initio components such as Join, Sort, Reformat, Filter-by-Expression, Rollup, Scan, Normalize, Lookup
- Worked with Partition components like Partition-by-Round Robin , Partition-by-key, Partition-by-expression to partition the data from serial file
- Worked with components like Gather, Merge, Concatenate to de-partition data from Multifile

Cognizant   January 2019-December 2019
Associate – Data Engineering   Columbus, Ohio
Project : JP Morgan Chase via Cognizant
Project Description: The Project Pivot to Hadoop was a migration project. There were 6 data marts --CST, XCS, RDM, WRM, AMM and PDM developed in ICDW environment using Informatica, an ETL tool, and Teradata, a database. In Project Pivot, we're migrating these data marts to Hadoop ecosystem using Ab-Initio and building Hive tables for end users' use.
Ab Initio Responsibilities:
- Worked in a team, in an agile platform, to build applications that migrate data to Hadoop platform
- Built and ran graphs in Ab Initio for data ingestions in the Development environment
- Worked with Ab Initio components such as Join, Sort, Reformat, Filter-by-Expression, Rollup, Scan, Normalize, Lookup
- Worked with Partition components like Partition-by-Round Robin , Partition-by-key, Partition-by-expression to partition the data from serial file
- Worked with De-partition components like Gather, Merge, Concatenate to de-partition data from Multifile
- Promoted Ab Initio code (Ab Initio graphs) to QA, UAT and Production environment
- Created ETL mapping and graphs based on the technical specification document
- Debugged data (Ab Initio graphs) in case of data issues by using Ab Initio debugger
- Created Source DDLs for table creation
- Used SQL Developer and Query It to verify the counts across the Hadoop environments
- Completed SOR registration, data ingestion into the Hadoop Confirmed zone with all validation
- Created PI classification and documentation for the code
- Used Toad for Apache Hadoop to create and test Hive tables in the development environment
- Promoted and tested Hive tables in QA, UAT and Production environment (end to end process)
- Created and ran jobs in Control M
- Scheduled and monitored Ab Initio jobs in the Control Center

Platform by Per Scholas (Certification Programs)   June 2018 – September 2018
Data Engineering Trainee   Bronx, NY
Project Name: Credit Card Management System
- Used OOPs concept to build the project. I also used JDBC, ODBC drivers for the connection of RDBMS

- Used RDBMS concept with Structured Query Language. Created Database for the credit card management system and performed multiple actions in a database such as create, delete, select, insert, update, modify, drop and commit
- Used Hadoop framework. Set up Hadoop using Ambari. Worked on Architecture [Namenode(NN), DataNode(DN)]. Accessed, analyzed, and manipulated data in Hadoop
- Used Hortonworks sandbox for the project
- Created external and internal tables in Hive. Used partitioning in Hive for better performance
- Used Hive to design batch queries on Hadoop by providing a declarative abstraction layer
- Used Sqoop to import data from a relational source to HDFS and vice versa
- Used Oozie to create a scheduler system to run and manage Hadoop jobs

Tallac Networks – SD-LAN   March 2018-June 2018
Software Engineer   Remote
- Created UI on the client side using JavaScript and React
- Worked on an application/device called MoG to create software-defined LAN
- Built the UI for the project MoG on React
- Contributed to the code base, the server side and client side, on GitHub
- Ran Docker containers (backend and frontend) to run the project on my local machine for the development work
- Used HTML, CSS, JavaScript, Ruby on Rails, React, Docker, Jira, GitHub, and Terminal on a daily basis

Udacity (Certification Programs)   Jan 2018 – Jun 2018
Grow With Google Nanodegree Program   Remote
- As a recipient of Grow with Google Scholarship, I went through a 6-months long immersive training program dedicated to providing me with hands-on experience in building Front End Web Applications using JavaScript, HTML, CSS, React, SQL, PostgreSQL, Git, GitHub

- Used HTML, CSS, JavaScript, React, Git, GitHub, PostgreSQL to build project

General Assembly(Certification Programs)   May 2017-October 2017
NYC TTP Engineering Fellow   New York, NY
- As an Engineering Fellow at General Assembly, I went through a 14-week long training program dedicated to preparing us, the fellows, to think like engineers and approach problems creativity in order to build the next generation of web applications and digital products using JavaScript, Node, Express, Ruby, Ruby on Rails and React.

- Used HTML, CSS, JavaScript, Node, Express and React to build 5 projects and Ruby and Ruby on Rails to build 3 projects.

The New York Code And Design Academy(Certification Programs)   April 2016-August 2016
Web Development Immersive Program   New York, NY
- As an Web Development Immersive Trainee at The New York Code And Design Academy, I went through a 14-week long training program that taught me how to design and build full-stack web applications from scratch. I built applications using JavaScript, Ruby, and Ruby on Rails and hosted them on Heroku.

- Used HTML, CSS, JavaScript, React, Ruby, Ruby on Rails, SQL, PostgreSQL, Git, GitHub, and Terminal on a daily basis to build applications for projects

Education:

Baruch College, CUNY, Zicklin School of Business   2012 - 2015
Bachelor of Business Administration   New York, NY
Major in Economics
Minor in English

Queensborough Community College   2011 - 2012
Associate Degree, Accounting   New York, NY