

## Erick Galvez

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### Developer, Data Engineer, Analyst

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Software Developer, Data engineer and Data Analyst with 5 years experience working with and manipulating data. Hands-on experience with multiple tools and languages such as Matillion, Alteryx, Snowflake, MySQL, Python, Java, Angular, Bash, Batch and more. Passionate about learning and enjoy problem solving in order to deliver a great product that is optimal and efficient.

### WORK EXPERIENCE

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#### Independence Blue Cross

*Software Developer*

*February 2022 - Present*

- Automated a process utilizing batch scripting, to SFTP 100s of files to the client while adhering to file size restrictions by compressing data in a zip file.
- Implemented an import solution to query and store most up to date agent CSV data in order to accurately record millions of calls each year.
- Adopted Java library jsch in order to upload files and run linux scripts in a designated server to help streamline the import process.
- Spearheaded data recovery effort, created monitor programs that notified via email to flag errors in under five minutes to resolve failures.
- Admin of Linux/Windows servers, monitored logs, assessed file ownership/privileges, and wrote scripts to sustain the servers.
- Collaborated with lead and colleagues to develop a process that makes API requests to AWS dynamically, with failsafe that will reprocess data in a cost effective manner.
- Focused on minimizing bugs and failures by running performance tests and unit tests, ensuring production-readiness.

#### SDG Group USA

*IT Data & Analytics Consultant*

*June 2019 - September 2021*

- Utilized Snowflake for cloud data warehousing and Matillion for ELT processing to create frameworks to ingest millions of rows of data within minutes.
- Implementation of the Agile methodology to ground concepts and rollout client vision with minimal risk of failure.
- Supervision over an impactful infrastructure to process raw data and transform over thousands of loaded files.
- Standardized optimal Snowflake queries to cut down on runtime by about 20% which allowed to scale down the virtual warehouse to and improve on overall cost each time a query was run.
- Implemented a parser function to analyze the AWS S3 bucket and filter out millions of files trimming minutes off process time.
- Big data analytics in order to merge data from multiple sources together for improved testing, easier analysis, and faster reporting.
- Applied data modeling strategies on datasets to normalize tables removing data redundancy, improving query speed and cost per query.
- Reverse engineering existing Alteryx workflow in Matillion while also simplifying it and sustaining a more optimal solution.
- Data quality checks and deployment strategies to further engineer and maintain existing structures and minimize points of failure.

### COLLEGE PROJECTS

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#### Image Classification In Python

- Worked on a machine learning algorithm that determines whether or not an image is a face or not, as well as what digit an image is. Would output the correct result with an accuracy of 80 percent or higher regardless if sample size was in the 100s or 1000s.

#### Multithreaded Bank System In C

- Wrote a program using multithreading when allowing users to connect to the same server all at once.

#### Dog Matcher Web Page Using JavaScript, HTML and CSS

- Created a web page that questioned users and saved user response in order to output a perfect match based on answers provided.

#### Weather App In Python

- Wrote a GUI application that displays the current weather of a city entered, using API calls to both Yahoo weather and weather.com. Allows a user-friendly experience by providing options such as change from Celsius to Fahrenheit and comparing weather data.

### EDUCATION

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**Rutgers University, Rutgers School Of Arts And Sciences**, New Brunswick, NJ  
*Bachelor of Arts in Computer Science*

May 2020

**Middlesex County College**, Edison, NJ  
*Associates of Science in Computer Science*  
Officer of S.T.E.M. club, Officer in Computer Science club

May 2018

### SKILLS

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**Technical:** AWS, Alteryx, ETL, Data Modeling, Data normalization, Linux server, Matillion, OrecX, Snowflake, Windows server

**Programming Languages:** Batch script, Bash script, C, C#, C++, HTML, Java, JavaScript, SQL, Python, Powershell, R

**Business:** JIRA, Scrum, Kanban, Agile