

# Biplov Karna

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**Summary** — A Data Engineer - currently processing data for 11 active clients, providing actionable insights with 20+ dashboards, and driving data-driven decisions. Thrives on unraveling complex challenges, approaching each problem as an opportunity to innovate and implement ingenious solutions.

## Skills

**Database** Snowflake, Postgresql, Microsoft SQL Server  
**AWS tools** Glue, Lambda, S3, SNS

**Languages** Python, JavaScript, GDScript, C/C++  
**Visualization** Tableau, QuickSight, PowerBI

## Experience

### Deerhold Ltd.

July 2024 – Present

#### Data Engineer (Mid-Level)

##### Data Processing

- Engineered logic to remove reversal claims from Medical and Pharmacy data, improving data accuracy.
- Implemented HEDIS measures, assessing risk levels for healthcare clients with 110 metrics.
- Mentored and trained 3 new team members on overall data processes.

##### Research and Development

- Wrote procedures implementing business logic to generate backend tables for 20+ dashboards and reports.
- Created - Multiselect Parameter Extension for Tableau, enabling multiple selections in parameters not built-in in Tableau.
- Automated SPICE dataset refresh in QuickSight, reducing manual workload and increasing efficiency.

##### Visualization

- Developed and maintained intriguing 11+ Tableau Dashboards and 9+ QuickSight Dashboards as requested by clients.
- Focused on high efficiency and performance and reduced dashboard load time of complex dashboard from minutes to within 10 seconds.
- Provided 24/7 on-call support for critical issues and worked on root cause analysis for incident resolution

### Deerhold Ltd.

15th May 2023 – July 2024

#### Associate Data Engineer

- Completed HIPAA training, ensuring compliance with US healthcare privacy regulations in data processing and management with zero compliance issues.
- Wrote ETL pipelines for monthly data processing for each client using AWS Glue.
- Built Snowpipes for seamless data ingestion into Snowflake from AWS S3; designed Pentaho pipelines for data ingestion into Microsoft SQL Server.
- Enhanced data quality by implementing duplicate removal logic using similarity index and pattern matching techniques.
- Incorporated parallel processing in data processing in Python utilizing multiple clusters provided by Snowflake.
- Recognized as a most cross-functional and valuable team member during peer, managerial, and Client review.

## Education

### IOE, Thapathali Campus, Tribhuvan University

Bachelor of Computer Engineering (BCT)

## Projects

### Research Assistance

Ongoing

- Assisting a professor with a Ph.D. thesis, analyzing UV Index data from NASA's OMI AURA Satellite alongside geographical and meteorological parameters for 21 different locations.

### Multimedia Steganography (Major Project)

2023

- Trained a model with 100K images to embed secret media inside a cover media using Convolutional Neural Network, Arnold Scrambling, and Wavelet Transform.

### Treasure Hunt - a 3D Multiplayer Game

2022

- Utilized Blender for 3D models and animations, and integrated them into the Godot game engine with GDScript for multiplayer game logic. Updated from only 1 level to infinite levels now.

### Food Ordering System

2021

- Designed and implemented a QT-based system featuring interfaces for customers, chefs, receptionists, and administrators.