

# BINU MATHEW

## AWS Data Engineer

AWS | Python | Shell Scripting | Oracle PLSQL | PostgreSQL | Terraform

Data-focused IT professional with 20+ years of experience designing, developing, and optimizing data solutions. Hands-on expertise in building scalable AWS data pipelines using Amazon S3, AWS Lambda, Amazon SQS, AWS Glue, Amazon RDS, and Amazon Redshift.

Strong development background in Oracle PLSQL, PostgreSQL PLPGSQL, and Python for data processing and automation. Leverages modern AI tools such as GitHub Copilot, ChatGPT, and Google Gemini to enhance development efficiency.

Experienced in automating infrastructure and deployments using Terraform and AWS CloudFormation, improving consistency and reducing manual effort.



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### TECHNICAL SKILLS

#### Cloud & AWS Services

AWS Lambda (Python, Boto3)  
Amazon S3  
Amazon SQS  
AWS Glue (Crawlers, Catalog, ETL)  
Amazon RDS  
Amazon Redshift  
Amazon Athena  
Amazon EC2  
Amazon ECS  
CloudFormation  
Route 53  
CloudFront  
CloudWatch

#### Database & Data Platforms

Oracle Database (12c)  
PostgreSQL  
MySQL  
Oracle SQL, PL/SQL  
PostgreSQL PL/pgSQL  
SQL\*Loader  
Oracle Performance Tuning  
Oracle Forms & Reports 10g

### PROFESSIONAL EXPERIENCE

#### WEX – AWS Data Engineer

Aug 2022 - Present

Designed and implemented scalable AWS-based data pipelines using S3, Lambda (Python, Boto3), SQS, Glue, Athena, RDS, and Redshift to support enterprise data processing and analytics workloads  
Architected infrastructure automation using Terraform and CloudFormation, enabling repeatable, scalable, and version-controlled cloud deployments  
Developed Python and Shell-based automation scripts to streamline operational workflows, reduce manual effort, and improve system efficiency  
Performed data troubleshooting and root cause analysis using Splunk, Amazon CloudWatch, and S3 logs to ensure data reliability and pipeline stability  
Managed CI/CD workflows using GitHub Actions and AWS CodePipeline/CodeDeploy to ensure consistent and reliable application and data deployments

#### Standard Chartered GBS – Senior Data Analyst

Dec 2021 – Jun 2022

Designed and implemented ETL pipelines using AWS Glue to extract and process data from distributed PostgreSQL databases across multiple regions  
Transformed and loaded large-scale datasets into Amazon Redshift, enabling centralized analytics and improved reporting efficiency  
Configured AWS Glue Data Catalog and crawlers with JDBC-based PostgreSQL connections to automate schema discovery and metadata management

#### CGI – Senior Data Engineer

Dec 2010 – Dec 2021

Processed large volumes of CSV input data and developed PL/SQL packages, procedures, and functions to transform and load data for billing and reporting systems  
Delivered end-to-end custom data solutions tailored to diverse client requirements across multiple domains and environments  
Designed and optimized ETL processes using Oracle PL/SQL, improving performance and scalability for large-scale data processing and analytics systems  
Performed advanced Oracle database performance tuning through execution plan analysis, indexing strategies, and SQL query optimization, significantly improving system efficiency  
Contributed to product enhancements, and modernization of enterprise data systems over long-term client engagements

#### MetricStream – Oracle Data Architect

Apr 2010 – Dec 2010

Worked on Oracle and Java-based GRC product customization and development  
Designed data models for new module development and enhancements to support product scalability and functional expansion

#### Accenture – Oracle Applications Technical Consultant

Aug 2008 – Apr 2010

Developed and supported Oracle E-Business Suite R12 customizations for Inventory and Purchase Order modules  
Worked on PL/SQL, Oracle Forms 10g, SQL Loader, and Unix scripting for enterprise application development and integration  
Delivered technical solutions for business process automation and ERP system enhancements

## Procedural/Scripting Languages

Python

PL/SQL

PL/PGSQL

Shell Scripting

JavaScript

HTML

JSON

## ETL / Data Engineering

ETL Design & Development

Data Pipeline Development

Data Transformation & Loading

## DevOps / Automation & Tools

CI/CD: GitHub Actions

AWS CodePipeline

AWS CodeDeploy

Terraform, CloudFormation

GitHub Version Control

## Cappgemini — Database Developer

Jan 2006 – Jul 2008

Supported application maintenance and development for client-managed enterprise systems

Developed PL/SQL procedures, SQL scripts, and data loading processes using SQL Loader

Performed Unix-based scripting and backend database support for production systems

## Coforge — Database Developer

Apr 2005 – Jan 2006

Contributed to product development using Oracle PL/SQL on Java-based application platforms

Developed backend database components and SQL logic to support application functionality and data processing

Participated in development and enhancement of enterprise software modules

## EDUCATION

CDAC Diploma in Advanced Computing, C-DAC, Pune

A' Level / PGDCA, DOEACC, Govt. of India

B. Com, MG University, Kottayam

## CERTIFICATIONS

[AWS Solution Architect Associate](#)

[AWS Developer \[Udemy\]](#)

[Apache Spark Developer using Python \[Edureka\]](#)