

# Priyamvradha Parthasarathi

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## CERTIFICATIONS & TECHNICAL SKILLS

**Certifications:** Alteryx Designer Core, AZ - 900 Azure Fundamentals, SQL Fundamentals (ANSI) certified  
**Tools:** Ab Initio, Alteryx, Kleene.AI, SSIS, Databricks, Tableau, Advanced Excel, Excel VBA, JIRA, Git  
**Programming:** R, Python, SQL, Hadoop, Hive/Impala, PySpark, Unix/Linux, Data Manipulation Programming  
**Databases:** MySQL, Snowflake, Oracle, MongoDB, DynamoDB  
**Cloud:** AWS (Glue, Redshift, S3, Athena, Lambda), Azure (Azure Data Factory, Azure Blob Storage, AKS)

## PROFESSIONAL EXPERIENCE

**Data Specialist - Kaay Labs Inc, United States** June 2024 – Present

- Configured Amazon **Redshift** Spectrum to query and analyze data directly from **Amazon S3** using standard SQL, enabling cost-effective analysis of vast datasets.
- Designed and deployed a scalable web service architecture that leverages **RESTful APIs** to connect AI models with web applications, providing real-time data processing and response capabilities.

**Data Engineer Intern - Kaay Labs Inc, United States** June 2023 – August 2023

- Implemented efficient ETL pipelines with **Kleene.AI**, leading to streamlined processing & improved data quality.
- Formulated and maintained ETL processes to integrate **structured** and **unstructured** data from various sources into **NoSQL** data stores, ensuring data integrity and optimal query performance.
- Refined **Amazon Redshift** queries with distribution and sort key techniques and slashing query times by 40%.
- Orchestrated migration of on-premises databases to **Amazon RDS**, resulting in a 40% reduction in database administration overhead and a 30% decrease in infrastructure costs.

**Senior Data Engineer - Larsen and Toubro Infotech LTI, India** May 2019 – July 2022

- Developed **data solutions** for a banking client by orchestrating a smooth and effective data flow through data pipelines and **ETL workflows** resulting in a 30% reduction in overhead data processing time.
- Utilized advanced **Excel** and **Ab Initio** (ETL Tool) to build an automated reporting system which created daily and monthly reports for the US Federal Reserve system, leading to 90% reduction in manual report preparation time.
- Improved, modified, and maintained **SQL queries** and procedures for reports and elevated SQL queries which reduced client application runtime by 50%.
- Boosted data storage costs by 25% through migration to **Amazon S3** and implementation of lifecycle policies for data archival using **AWS Storage Gateway**.
- Leveraged **AWS Lambda** functions to automate ETL processes, reducing manual intervention by 50%.
- Enhanced data reliability and availability by designing fault-tolerant architectures using **Amazon EC2**, achieving a 99.99% uptime for critical data systems.

## PROJECTS

**Hosting serverless Web Application in AWS | (S3, DynamoDB, Lambda, AWS, HTML) | [GitHub](#)** April 2024

- Spearheaded deployment of serverless Web App on AWS, cutting data storage costs 25% using **Amazon S3** and **DynamoDB**, orchestrating seamless backend processing via **AWS Lambda**.

**Spotify data pipeline Analysis using AWS. | (S3, Glue, Athena, QuickSight, AWS) | [GitHub](#)** May 2024

- Designed an AWS-based data pipeline to analyze Spotify data: used **S3** for storage, **AWS Glue** for ETL, **Athena** for querying, and **QuickSight** for visualization, enabling efficient data transformation and insightful analysis.

**Truck Fleet Movement Reporting and Analytics | (Cloudera, Tableau, Python) | [GitHub](#)** May 2023

- Worked on a Truck fleet movement project integrating **Hadoop** ecosystems, **Hive/Impala** with **Tableau**, and regression analysis to boost safety and efficiency in transportation.

**E-Commerce Database Management System | (Data Modeling, MySQL) | [GitHub](#)** November 2022

- Created an amplified e-commerce **MySQL database model**, applying data normalization techniques for precise data analysis and elevated business insights to boost sales and profits by 70%.

## EDUCATION

**Master of Science, Business Analytics** - The University of Texas at Dallas | GPA 3.83 - Scholar with Distinction May 2024

**Major** – Data Engineering and Data Analytics

**Bachelor of Engineering, Electronics and Communication Engineering** - Anna University | GPA 3.30 April 2019