

# PALASH TRIPATHI

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## SUMMARY

Data Engineer specializing in cloud-based ETL pipelines, multi-tenant data platforms, and predictive analytics across AWS, PostgreSQL, and Microsoft Fabric. Skilled in SQL, Python, Power BI, and API-driven reporting, delivering automated insights that support real-time financial, operational, and supply chain decision-making.

## TECHNICAL SKILLS, LANGUAGES

**Programming:** SQL (Dual-Certified), Python, DAX, Java, JavaScript

**Cloud & Technologies:** AWS (Glue, Lambda, S3, DynamoDB, Redshift), Docker, Linux, Power BI, Tableau, Apache Superset, Git, Bitbucket, React, Angular, Spring Boot, SAS, SAP, Primavera P6, Google Analytics, NumPy, pandas, Matplotlib

**Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB

**Certifications:** Microsoft PL-300, SQL (Dual Certified)

## WORK EXPERIENCE

### E2 Consulting Engineers Inc. – Data Engineer & Analyst, San Diego, CA

May 2023 - Present

- Designed and maintained scalable **ETL frameworks** using SQL, Python, AWS Glue, and Microsoft Fabric to support automated data ingestion and transformation across multiple business areas.
- Engineered a **multi-tenant** PostgreSQL analytics platform with automated schema provisioning, reducing onboarding time for new clients by 60 -70% and ensuring secure data isolation.
- Built **forecasting models** that improved supply chain planning accuracy and helped reduce stockouts and overstock across key operations.
- Embedded real-time KPI dashboards and semantic models in Power BI and Apache Superset, integrating internal APIs and cutting dashboard embedding costs by adopting an open-source approach, reducing manual reporting time by 40%.
- Implemented automated data quality validation within the AWS **data lake** using Glue Jobs, DynamoDB lookups, and PostgreSQL integrity checks, improving accuracy and reliability across all reporting pipelines.
- Led the migration of data and analytics workflows from Microsoft Fabric to AWS, improving scalability and long-term performance.
- Integrated SAP HANA, Primavera P6, and operational datasets into unified analytics models to support cross-functional reporting and decision-making.

**Environment:** Python, PostgreSQL, SQL, Linux, DAX, Git, Power BI, AWS Lambda, DynamoDB, Redshift, Dataverse, Power Apps, Power Automate, SAP HANA, Apache Superset, CI/CD, Agile, Jira, Microsoft Fabric.

### Northern Trust Bank - Full Stack Engineer, Chicago, IL

December 2021 - December 2022

- Migrated monolithic architecture to scalable microservices using Java, Spring Boot, Docker, and Kubernetes, improving system performance and deployment flexibility.
- Developed responsive UI features using React, Redux, JavaScript, and HTML/CSS to enhance usability and overall application experience.
- Built secure **RESTful** services with OAuth2 authentication and optimized SQL cluster performance to support high application workloads.
- Supported and improved CI/CD pipelines using Bamboo, Concourse, and Git to streamline build automation and release efficiency.

**Environment:** Agile, JIRA, Azure, Java, JavaScript, React, Spring Boot, Spring MVC, Spring Security, SQL, Bamboo, Gradle, Docker, Restful Web Services, jQuery, GitHub, GitLab Bitbucket, PCF, Service Now Microservices.

### StonedGenie - Data Engineer I, Riverside, CA

May 2020 - July 2021

- Built forecasting models and automated inventory reports to improve stock planning accuracy and support more efficient operations.
- Designed and maintained PostgreSQL databases with **query optimization, indexing, and stored procedures**, and automated SQL-based ETL workflows to ensure consistent data processing and improved reliability.
- Developed machine learning models that increased customer CTR by 33% and enhanced targeted marketing effectiveness across campaigns.
- Built interactive dashboards for sales, trend analysis, and marketing performance to provide real-time visibility into key business metrics.

**Environment:** MS Visio, SAS, SQL, R, Python, Oracle, Postman, Docker, Jira, Confluence, API, GCP, PostgreSQL, Jupiter, Git, Looker, ETL.

### Tripathi Herbs - Jr. Data Analyst, Pune, India

July 2019 - May 2020

- Implemented CRM processes that increased customer satisfaction by 35% and strengthened overall customer engagement.
- Improved SEO and analytics strategies, increasing sales by 15% and website traffic by 50% through targeted optimization efforts.
- Built dashboards for marketing and product performance to provide clearer visibility into trends for better decision-making.

## EDUCATION

### Master of Science in Information Systems & Analytics

August 2021

California Baptist University, Riverside, CA

GPA: 3.9/4

**Relevant Coursework:** Artificial Intelligence, Cloud Computing: Data Analysis and Visualization, Business Analytics Modelling, Data Engineering, Database Systems & Management, Organizational Behavior, Managerial Ethics.

### Bachelor of Engineering in Information Technology

May 2019

Savitribai Phule Pune University, Pune, India

GPA: 8.1/10

**Relevant Coursework:** Object Oriented Programming, Machine Learning, Database Management, Business Intelligence, Cloud Computing, Advanced Data Structure and Algorithms, Distributed Systems, Data Mining and Warehousing.