

PRANEETH BOINPALLY

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WORK EXPERIENCE

Christus Health

Azure Data Engineer

Irving, TX, USA

Dec 2023 – Present

- Designed scalable data architectures using Azure Data Factory, Databricks, and Apache Spark, optimizing performance by 40%.
- Developed and managed ETL pipelines, ensuring data quality, compliance, and governance across healthcare analytics infrastructure.
- Integrated role-based access controls (RBAC), multi-factor authentication (MFA), and data encryption for secure data operations.
- Automated CI/CD pipelines using Azure DevOps and Terraform, reducing deployment failures by 35%.

Toyota Motor North America

AWS Data Engineer

Plano, TX, USA

Mar 2023 – Nov 2023

- Developed real-time and batch data pipelines using AWS Lambda, Redshift, and Apache Spark, reducing processing time by 50%.
- Managed Snowflake data warehouse operations, leveraging dbt for data transformation, modeling, and governance.
- Implemented data security best practices, ensuring compliance with OKTA identity management and RBAC policies.
- Designed RESTful APIs for seamless integration with third-party applications and external data sources.

DBS Bank

Data Engineer

Hyderabad, TG, India

Jun 2021 – Nov 2022

- Developed and managed ETL pipelines using Python, SQL, and Airflow, ensuring efficient data ingestion and processing.
- Designed Snowflake-based relational databases to improve data storage and retrieval performance.
- Built interactive dashboards for investment and financial analytics, leveraging SQL and Python.
- Conducted schema design and dimensional data modeling, optimizing analytics workflows.

Cholamandalam MS General Insurance

Associate Data Engineer

Hyderabad, TG, India

Mar 2019 – May 2021

- Created SQL-based data models for business intelligence reporting and analytics, improving query performance by 35%.
- Deployed batch and real-time data transformation workflows, reducing data processing time by 30%.
- Automated data validation processes using Python and SQL, improving data quality through real-time anomaly detection.
- Integrated microservices and API development to enhance data retrieval efficiency.

SKILLS & CERTIFICATIONS

Azure (VMs, Data Factory, Databricks, Logic Apps, Microsoft Fabric), AWS, GCP, CloudFormation, Looker, GKE | Azure Synapse, AWS Redshift, Snowflake, Cassandra, Redis, NoSQL, MySQL, SQL Server, PostgreSQL, Oracle, SAP, CRM | Informatica, SSIS, Jenkins, Visual Studio, Azure DevOps, Git (GitHub, GitLab, Bitbucket) | Spark (JVM, Scala), HTML, Bash, R, Python, Java, Hadoop, Hive, Apache Kafka, Flink, Docker, Kubernetes | JIRA, ServiceNow, Data Quality Frameworks, Artificial Intelligence (Open AI), Big Data | Dremio, Apache iceberg, Delta Lake, Trino, presto, Databricks, ClickHouse, Apache Impala, Vertica | Fivetran, Matillion, Stitch Data, Talend, Airbyte, Meltano, AWS Data Pipeline.

Certifications:

AWS Data Engineer Associate, Microsoft Azure Data Engineer Associate, Google Cloud Engineer, Google Analytics Certification, AWS Academy Cloud Foundations, Google Analytics Certification, AWS Academy Cloud Foundations, Data Bricks Fundamentals

EDUCATION

GEORGE MASON UNIVERSITY

Master's of Science in Computer Science

Fairfax, VA

Jan 2023 – May 2024

SPHOORTHY ENGINEERING COLLEGE

Bachelor of Science in Computer Science

Hyderabad, India

Aug 2018 – Aug 2022

PROJECTS AND RESEARCH PAPERS

Network Intrusion Detection Using Machine Learning Algorithms

- Developed an ML-based IDS achieving 98% accuracy using optimized ELM algorithms to detect attacks in network traffic

Driver Drowsiness Detection Using OpenCV and TensorFlow with Keras

- Developed a real-time fatigue detection system using computer vision and EAR analysis to trigger alerts.

Claim Safe Auto Insurance Recommender

- Developed an AI-driven premium recommendation system using driver history, vehicle data, and market trends for dynamic pricing.

Laundry And Dryer Alarm Using BeagleBone Black

- Developed IoT alarm system with real-time sensor monitoring and automated notifications, improving user convenience by 85%.