

# TRAN MINH TU TRUNG

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## OBJECTIVE

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I aim to design and develop high-performance data infrastructure that supports real-time analytics and machine learning applications. With expertise in cloud platforms, distributed systems, and data governance, I strive to lead engineering teams in delivering scalable solutions that drive business growth.

## EDUCATION

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**2018 - 2022**     **Ho Chi Minh University of Technology and Education**  
*Bachelor of Data Engineering*  
GPA: 3.01/4.0

## WORK EXPERIENCE

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- 05/2025 – Present**     **Data Engineer – Vietnam Silicon, Ho Chi Minh City, Vietnam**
- Designed and implemented the core data platform architecture for an agriculture project using AWS (S3, Glue, Iceberg, Trino, EKS).
  - Built and delivered ETL pipelines with Spark/PySpark, ensuring reliable data ingestion and transformation.
  - Applied data security and governance practices (IAM, encryption, metadata/catalog management).
  - Deployed and managed data services on Kubernetes (EKS), including Helm-based deployments and CI/CD.
  - Created and maintained technical documentation for system architecture and deployment processes.
  - Mentor and Project Leader for the company's internship program. Built and developed an automated CV screening product for the Talent Acquisition team.
- 05/2025 – 09/2025**     **Data Lead – EONSR, Ho Chi Minh City, Vietnam (Part-time)**
- Led and coordinated data team resources to ensure timely and high-quality project delivery.
  - Oversaw implementation of analytics and data solutions using Google Analytics 4 (GA4) and BigQuery.
  - Developed interactive dashboards and business reports in Looker Studio to support Marketing and Business teams.
  - Integrated and analyzed advertising data from platforms such as Google Ads, Meta, and TikTok to optimize campaign performance.
  - Involved in designing and maintaining scalable, secure, and efficient data architecture.
- 05/2023 – 05/2025**     **Data Engineer - Renova Cloud, Ho Chi Minh City, Vietnam**
- Led cloud migration projects from on-premise infrastructure to AWS, focusing on scalability, security, and cost optimization.
  - Designed and documented cloud architecture, providing clients with strategic consultation and AWS best practices.

- Built end-to-end data platforms covering ingestion, processing, storage, and analytics across cloud-native services.
- Deployed and managed microservices, implementing observability through logging and monitoring tools.
- Optimized database performance, ensuring high availability, reliability, and efficient resource utilization.
- Designed and deployed infrastructure using Infrastructure as Code (IaC) tools like Terraform and AWS CloudFormation.
- Architected and delivered streaming data systems using Apache Kafka and AWS MSK.
- Built scalable ETL/ELT pipelines using Apache Airflow, AWS Step Functions, and other orchestration tools.
- Demonstrated strong expertise in AWS services including EC2, Lambda, ECS, EKS, DMS, DataSync, RDS, Redshift, Glue, S3, and Kinesis.
- Delivered data solutions for Banking and Healthcare sectors, addressing regulatory compliance, real-time transaction processing, and large-scale analytics.
- Managed and consulted on the delivery of data lakes, data warehouses, and lakehouse architectures for enterprise clients.

**09/2022 – 04/2023      Data Engineer - BnK Solution, Ho Chi Minh City, Vietnam**

- Design, develop platforms and architectures for data processing using Databricks. Using the Delta Table to deploy the Lakehouse.
- Build data pipeline for reading CSV files using NiFi.
- Build efficient code to transform raw data into datasets for analysis and reporting using Scala.
- Process streaming data using Kafka, Debezium, and Google Cloud Storage
- Expose Rest API for getting Delta files from Google Cloud Storage

**07/2021 - 09/2022      Data Engineer - TechX Corporation, Ho Chi Minh City, Vietnam**

- Designed and developed data processing platforms and architectures using AWS native services.
- Built efficient data transformation scripts using Python and PySpark to support reporting, analytics, and machine learning workflows.
- Designed and implemented scalable, end-to-end data pipelines—from ingestion to consumption—leveraging AWS Glue Workflows and Step Functions.
- Created operational dashboards and visualizations using AWS QuickSight and Power BI to support monitoring and decision-making.
- Designed the data model and architecture for internal data projects, ensuring scalability and maintainability.
- Built automated data pipelines to extract and load data from Jira into Power BI for dashboard creation and reporting.
- Developed basic RESTful APIs using FastAPI to enable data access and integration across systems.
- Wrote complex Oracle SQL queries to preprocess business-critical data for downstream applications.
- Worked on ETL migration by developing procedures and utilizing Oracle Data Integrator (ODI) tools to create serverless data pipelines.
- Designed data warehousing infrastructure to support enterprise-scale analytics.

## CERTIFICATION

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- AWS Certified Database – Specialty
- AWS Certified Data Analytics – Specialty
- AWS Certified Data Engineer – Associate
- AWS Certified Solutions Architect – Associate
- AWS Certified AI – Practitioner
- 1<sup>st</sup> Partner Bootcamp Training Course
- Datadog Certified: Datadog Fundamentals
- Datadog Certified: Kubernetes Fundamentals

## ACTIVITIES

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- Paper: [AI-Driven Deep Learning Approach for Pan-Cancer Immune Profiling](#)
- 1<sup>st</sup> Workshop Challenge - VN Partner Special Force Bootcamp 2023.
- 1<sup>st</sup> Design Challenge - VN Partner Special Force Bootcamp 2023.
- Won the Microservice Challenge - the first challenge in the Viet Nam Partner Special Force Bootcamp 2023.
- Won the HCMUTE Scholarship (2020)
- Won the third prize in the Mastering IT academic competition (2019)

## ADDITIONAL INFORMATION

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- **Languages:** Python, PySpark, SQL, Scala
- **Database:** AWS Redshift, AWS Athena, AWS DynamoDB, Amazon RDS
- **Data Storage:** AWS S3, Apache Hadoop
- **Streaming and Messaging:** Apache Kafka, Amazon Kinesis, Amazon MSK (Managed Streaming for Kafka)
- **Data Processing and Analytics:** Databricks, AWS Glue, AWS EMR (Elastic MapReduce), AWS Lambda, AWS Step Functions
- **Data Migration Services:** AWS DMS (Database Migration Service), AWS DataSync, AWS MGN (Application Migration Service)
- **Data Orchestration and Workflow:** Apache Airflow, AWS Step Functions
- **Containerization and Orchestration:** Kubernetes, Amazon EKS (Elastic Kubernetes Service), Docker
- **CI/CD Tools:** AWS CodePipeline, AWS CodeBuild, GitHub Actions, Jenkins, GitLab CI/CD
- **Monitoring Tools:** AWS CloudWatch, AWS CloudTrail.
- **Cloud Computing Services:** Amazon Web Services (AWS)