

Tuan Nguyen

Discoverer | Handicrafter | Data Engineer

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Introduction

I have an extraordinary passion for discovering new things

I Love programming, cooking, and doing handicrafts

Currently

I am a Data Engineer with more than three years of industry experience. My primary responsibilities are helping build ETL pipelines, including modeling, collecting, processing, and provisioning data

Apart from my daily activities, I also help other operational teams with making automation tools to enhance the business working performance

I am seeking to face any data challenges or problems. Feel free to reach out to me. I am glad to hear a ring from you

Skills

Data Engineering

- Extract data from various multiple data sources like: Remote Object Storage (Amazon S3), SFTP, relational databases, non-relational databases, Facebook Analytics, Google Analytics, social media contents, APIs
- Process many types of data: transactional data, high volume data, user events, logs
- Perform data transformation, masterizing data, data cleaning, data validation
- Build data pipeline for Batch and Stream processing
- Schedule data pipeline jobs orchestration using GoodData, Apache Airflow
- Design data model for data digestion

Data Analytics

- Design data model for analytics using Star schema, Snowflake schema
- Apply analytics queries to calculate business metrics
- Create interactive reports and dashboards

Data Operations

- Set up development, staging and production environment for data flows
- Implement and integrate client single sign-on authentication and authorization, data mart provisioning
- Config network rules, identity management on cloud
- Monitor and mantain jobs
- Apply automation trigger workflows

Project Management

- Follow Agile and SCRUM software development process
- Use versioning control to store and maintain source
- Prepare technical and non-technical documentation, training material for knowledge transferring to client
- Manage projects and tasks on JIRA. Track working progress and performance on Workfront

Technical

- Programming languages: Javascript, Ruby, Python
- Database: Vertica, PostgreSQL, BigQuery
- Containerization: Docker
- Bash: Shell script, CLI commands
- Version control: Github
- ETL Tools: Apache Airflow, Talend, GoodData
- Streaming data: HDFS, Hadoop, Apache Spark, Apache Kafka
- Cloud services: AWS (S3, EC2, IAM, VPC, Lambda)
- BI Tools: PowerBI, Looker Studio, Streamlit

Others

- Scheduling and managing tasks for the highest productivity
- Design technical courses for training team members or end-users (clients)
- Self-learning, researching technical problems and solutions
- Work well in a multicultural office environment

Experience

2020 - 2023

KMS Solutions | Data Engineer

Project: GoodData's client

Design and build data solutions for GoodData's clients in various industries such as: Education, financial services, customer satisfaction, retail, multimedia

- Design logical data model based on business intelligence analysis requirements using star schema
- Design and build ETL pipeline for centralizing/mastering data in the data warehouse using GoodDataSDK, GoodData Cloud Native
- Implement multiple types of connectors/downloaders/extractors to connect and collect data from various data sources using Ruby, Python
- Build up automation tools to configure processes and perform API calls for data management using shell script, programming languages
- Config processes integrations with client's system on multiple cloud like SSO SAML, networking connections, data security in AWS, Azure, Google Cloud Platform
- Consulting/training/mentoring data solutions for team members/clients with self-service operations
- Support client's business critical operations on demands via JIRA tickets
- Build reports, dashboards using Analytical Queries, MAQL

Project: Citigo

Support client on technical operations with Product Analytics using Mixpanel

- Maintain and optimize data pipeline of user activities event data tracked from product/application to Mixpanel and Google BigQuery
- Support building product analysis reports using Insights, Funnels, Retentions and Flows reporting

Project: VietCredit POC

Build data solution POC for VietCredit base on financial data. Target to have risk analysis, debt collection performance analysis

- Build ETL pipeline to extract data from the client's Oracle database, centralize data in Vertica that hosted on Amazon EC2 Instance. Used Talend Studio for ETL jobs
- Schedule cron and monitor jobs run in Linux Management Console server hosted on AWS EC2 using Shell scripts and Apache Airflow
- Utilize SQL for data transformation and leverage In-database Machine Learning Functions to train models and make Risk predictions
- Establish a connection to the database system and create dynamic reports and interactive dashboards for analyzing debt collection performance and gaining insights into customer background criteria

2019 - 2020

Freelance | Full Stack Developer

- Design, implement and maintain the Football Booking System based on the customer's requirements
- Technical stack:
 - Ubuntu cloud, docker
 - Java spring boot
 - JWT Authentication SSO
 - RestfulAPI
 - MySQL, Redis
 - Website dashboard: ReactJS - Mobile: React Native
- Team size: 3 members

2015 - 2017

English Tutor

- Take responsibility for teaching English in a class of 5 - 10 high school students

Education

2012 - 2015

University of Finance and Marketing

- BEc, Finance of Insurance and Investment

2016 - 2021

FPT University

- B.Eng., Software Engineering

Certifications

AWS Fundamentals Specialization
 AWS Fundamentals Specialization
 Modern Application Development with Java on AWS
 Mixpanel Partner Certification
 Project Management Principles and Practices
 Project Management Principles and Practices

Awards

2016

Top 2 | Final Round | Softskills Training Program, Level Up - Sponsored by Samsung

2021

Professional Growth Award, recognized by Data and Analytics Department, KMS Solutions

2022

Certificate Of Appreciation, Techcon Organizer, KMS Group

Publications

Blog articles

2022

Bring Your Product to a Higher Level with Product Analytics

- A blog article to introduce product analytics and how it can help accelerate the business growth
- Published on Dec 1st, 2022

Webinars

2022

Webinar | Optimize Customer Journey with Product Analytics

- An English-based webinar to share how to discover why Product Analytics is essential to your business and how to take advantage of it to improve the customer journey
- Organized on Dec 6th, 2022

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