

HUYNH THE MINH

Data Engineer



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GitHub
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PROFESSIONAL SUMMARY

Qualified data engineer with strong technical skills in SQL, Python, and data warehousing. Passionate about designing and implementing scalable data pipelines to enable data-driven decisions. Be able to collaborate with cross-functional teams and communicate complex technical concepts to non-technical stakeholders for successfully delivering high-impact data solutions that meet business requirements.

PROJECTS

FEB 2023 - MAR 2023

Data Pipeline Automation With Airflow

Created production-grade data pipelines that are dynamic and built from reusable tasks, can be monitored, and allow easy backfills using Airflow. Performed data quality checks to catch any discrepancies.

FEB 2023 - MAR 2023

STEDI Human Balance Analytics

Extracted the data produced by the STEDI Step Trainer sensors and the mobile app, and curated them into a data lakehouse solution on AWS so that data scientists could train the learning model to detect steps accurately in real-time.

JAN 2023 - FEB 2023

AWS Cloud-Based Data Warehouse

Built an ETL pipeline that extracts music streaming startup's data from S3, stages them in Redshift, and transforms data into a set of dimensional tables for analytics team to find insights into songs users are listening to.

JAN 2023 - FEB 2023

Data Modeling With Apache Cassandra

Modeled data by creating tables in Apache Cassandra to run queries. Design an ETL pipeline to transfer data from a set of CSV files within a directory to create a streamlined CSV file and insert transformed data into Apache Cassandra tables.

WORK EXPERIENCE

APR 2021 - MAR 2023 (FT)

Power Engineering Consulting JSC 3 (EVN) *Thermal Technologist*

- Experienced working with foreign technology vendors to deliver system optimizations and technological selections to investors.
- Scrutinized data, regulatory documents to make informed decisions about system design or maintenance.
- Key member of Quang Trach I Thermal Power Plant Technical Design project, O Mon II Combined Cycle Gas Turbine Power Plant Basic Design project. Responsible for analyzing and designing thermal mechanical systems.
- Participated in counter-argument against verification agency on system design and selection.
- Developed machine learning and deep learning intuition. Handled sequential time series data. Leveraged Recurrent, LSTM networks and Convolutions to address forecasting problems.

EDUCATION

2022 - 2023 **AWS Data Engineering Nanodegree**

HIGH-QUALITY GRADUATE PROJECT
Data Science
Udacity

2016 - 2020 **BSc. in Nuclear Engineering**

FIRST-CLASS HONOURS
Nuclear Physics and Technology
National Research Nuclear University

AWARDS

2020 **Outstanding Academic Performance**

State Supreme Certification Commission

2016 **ROSATOM Academic Scholarship**

University of Science - VNUHCM

TECHNICAL SKILLS

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|----------------------|-----------------------------------------------------------------|
| PROGRAMMING LANGUAGE | Javascript, Python, SQL |
| WEB TECHNOLOGIES | CSS, Django |
| DATABASE | PostgreSQL, MySQL Cassandra |
| BIG DATA | Spark, Hadoop |
| PIPELINE MANAGEMENT | Airflow |
| CLOUD | AWS Redshift, AWS S3 AWS Glue, AWS Athena Boto3 (AWS SDK) |
| MACHINE LEARNING | TensorFlow, NumPy |
| DATA ANALYSIS | Pandas, Matplotlib |
| DATA VISUALIZATION | Power BI, Tableau |

LANGUAGE SKILLS

ENGLISH High proficiency in writing and verbal communication

RUSSIAN High proficiency in academic writing

STRENGTHS

Detail-oriented

Highly detail-oriented and meticulous, with a proven ability to identify and correct errors before they become bigger problems.

Project Management

Experienced leading cross-functional teams to meet deadlines and deliver high-quality results.

Analytical Thinking

Demonstrated ability to break down complex problems into smaller parts and analyze them systematically.

- Used ConvNets, Augmentation, and Transfer Learning techniques to build Deep Neural Networks (DNNs) trained on both computer-generated and real-world images that solve classification tasks.
- Diagnosed Bias/Variance, conducted Error Analysis and used Regularization to improve model's performance.
- Executed K-means clustering algorithm to perform image compression task.
- Designed an algorithm that maneuvers a spaceship to successfully land on the moon's surface using Deep Reinforcement Learning.

SEP 2020 – NOV 2020 (FT)

REE Solar Energy (REE Corp.)
Operation and Maintenance Engineer

- Responsible for managing solar projects' documents, ensuring that they are properly stored, organized, and maintained.
- In charge of ensuring that all documents comply with regulatory requirements and company policies. Assisted with audits and inspections.
- Monitored solar generation.

REFERENCES

| | |
|---------------------|--------------------------------------------------------------------------------------|
| Mr. Nguyen Nhat Nam | |
| POSITION | Data Scientist |
| EMPLOYER | CEL |
| EMAIL | Nathan.nguyennhat@gmail.com |
| Mrs. Alla Oudalova | |
| POSITION | Professor |
| EMPLOYER | Department of Nuclear Physics and Technology National Research Nuclear University |
| EMAIL | oudalova@mail.ru |

Learning Agility
Demonstrated ability to learn and adapt to new environments and technologies quickly.

CERTIFICATIONS

Data Engineering with AWS Nanodegree
TensorFlow Developer Professional Certificate
Machine Learning, Stanford University

ACTIVITIES

- Enjoy coding and learning new technologies in Data Engineering and Artificial Intelligence.
- Eager to communicate in English (IELTS test preparation courses).
- Enthusiastic about improving health.
- Ready and willing to help those in needs.
- Yearn for doing volunteering work.