Nam Nguyen

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WORKING EXPERIENCE

- **SETA International Vietnam**   Ha Noi, Viet Nam
  Software Engineer   **May 2022 - Current**

  Data Platform | *Python, AWS Athena, Redshift, S3, Glue, DMS and MWAA*
  - Design and implement robust ETL (Extract, Transform, Load) processes for data volumes ranging from **100GB to 1TB**, ensuring data accuracy, integrity, and timely delivery to business and analytics stakeholders.
  - Develop data pipelines using AWS Database Migration Service (DMS) to consolidate data from production databases into a centralized data lake, replacing legacy pipelines and minimizing the load on production systems.

  AI Energy | *Python, Celery, FastAPI, InfluxDB, Redis, MS SQL, Grafana, Opentelemetry, Tempo, Airflow*
  - Built and maintained the data pipeline and monitoring system for the data analysis tasks.
  - Designed the backend infrastructure and data model for the bid optimization within the renewable energy trading market in the UK and Ireland.
  - Supported the data scientists by evaluating the forecast metrics on the models in production using Grafana
  - Implemented OpenTelemetry and Tempo for comprehensive API tracing, enabling precise bottleneck identification and optimization.

  AICycle | *Python, PostgreSQL, Triton Inference Server, Redis, RabbitMQ, Celery, FastAPI, Kubernetes, Airflow*
  - Constructed a data pipeline for the purpose of crawling, data processing with the utilization of Airflow.
  - Developed an AI system involves using Triton Inference Server to deploy deep learning models and automate their testing.

  GenAI Platform | *Python, Flask, Elasticsearch, Vertex AI Vector Search, Langchain, Google Cloud*
  - Built the data pipeline and the webhook for ingesting data from **100,000** documents across Confluence, Jira, and Zendesk
  - Constructed a QnA bot leveraging the Large Language Model (Gemini), assisting engineers in searching appropriate documents through various Google Cloud tools.

- **WorldQuant**   Ha Noi, Viet Nam
  Quantitative Research Intern   **August 2021 - January 2022**

  QuantDeep | *Python, C++, PyTorch, NLP*
  - Developed and integrated a new deep learning framework for portfolio optimization on the backtesting system. This tool attracted 5 researchers to produce numerous high-quality alphas (trading strategies)
  - Analyzed and extracted the impact of sentiment in earnings calls on stock price using natural language processing methods.

- **VinAI Research**   Ha Noi, Viet Nam
  Research Intern   **June 2020 - October 2020**

  3D Point Cloud Backdoor Attack | *Python, PyTorch*
  - Built, trained, and tested various neural network models for point cloud classification & segmentation tasks
  - Implemented experiments on the backdoor attack to explore vulnerable models for tasks featuring point cloud and achieved a success rate of **60-70%**

- **NERD**   Ha Noi, Viet Nam
  Software Engineer Intern   **September 2018 - December 2019**

  NLU | *Python, Scrapy, Selenium, MongoDB, Tensorflow, NLP*
  - Created a bot crawler to collect data from newspapers and food reviews for training machine learning models.
  - Worked on natural language processing tasks such as Name Entity Recognition, Automatic Speech Recognition, and Diacritic Restoration in Vietnamese

EDUCATION

- **University of Engineering and Technology, Vietnam National University**   2018 – 2022
  - Bachelor of Engineering in Computer Engineering; GPA: 3.45/4.0