Van Minh **Nguyen**

▼ vmnguyen251@gmail.com | □ (321)-368-9310 | ♥ Melbourne, FL USA % Portfolio | % LinkedIn Profile

Education

Florida Tech Melbourne, FL

Ph.D. OPERATIONS RESEARCH

Aug 2020 - Present

- Researched on Double Stochastic Processes (Branching Process with random offspring).
- Researching Electronics Health Record embedding for Machine Learning/Deep Learning.

Melbourne, FL

M.S. OPERATIONS RESEARCH, GPA: 4.0 Aug 2018 - May 2020

Florida Tech Melbourne, FL

Work Experience _____

B.S. BIOCHEMISTRY (BIOLOGY EMPHASIS), GPA: 3.43

Florida Tech Melbourne, FL

RESEARCH LAB - DEVOPS ENGINEER

Jan 2022 - Present

Aug 2014 - May 2018

- Deploy and maintain (bare-metal) servers for deep learning lab lead by Dr. Ryan T. White
- Deploy multi-user environments with GPU support for deep learning researches.
- Deploy Zero Trust Architecture for granting role-based access to servers (RBAC). Authentication backed with Keycloak and SAML, authorization backed with Cloudflare Access and Google OAuth.
- Secure deployments with HTTPS for web server, short-lived SSH certs for remote access, and VNC over HTTPS for remote control.

Truveta Seattle, WA

GRADUATE INTERN Jan 2022 - May 2022

- · Cost-effective and scalable SOTA Named Entity Recognition (NER) pipelines for clinical notes information extraction and deidentification. Saved \$2 million in annual cost compared to using existing third party solutions, and optimized to reduce 75% operating cost overhead compared with original baseline.
- Prototyped a clinical notes annotation tool for internal annotator team.
- Threat modeling and mitigation for deployment of mentioned tools, including common attack vectors on platform and PHI leakage

Truveta Seattle, WA

GRADUATE INTERN

May 2021 - Aug 2021

- · Developed an ETL pipeline to measure data quality of Truveta Health Data Model (THDM), garnering trusts from health providers. Contributed to new partnerships with multiple after Private Review in Aug 2021, and with Microsoft in Sept 2021.
- Designed a Monte Carlo sampling model to generate synthetic patient data for stress-testing and identify bottleneck in ETL process.
- Developed an annotation recommender system for medical concept normalization. Reduced internal annotators' workload by 80%

Skills

Software & Tools Python, Spark/PySpark, Hadoop Streaming, MySQL, Redis, TensorFlow, PyTorch, ONNX

Operating Systems Windows, Ubuntu Server, Arch Linux, macOS

Cloud Infrastructure Microsoft Azure, Amazon AWS

Data Processing & Analysis, Stochastic Modeling, Reverse Engineering, Penetration Testing

Projects.

Sentiment Analysis on MyAnimeList User Ratings

Redis, Docker, TensorFlow

SENTIMENT ANALYSIS. 94% TESTING ACCURACY WITH ENSEMBLE MODEL

Docker, Compose, GitHub CD/CI

GPU-supported PySpark Notebook with DeltaLake

DATA ANALYSIS CONTAINER WITH JUPYTER NOTEBOOK SERVER WITH GPU-RAPIDS AI FOR GPU-ACCELERATED DATA

DATA MINE, ETL TO EXTRACT USER REVIEW FROM MAL. PREDICT USER RATING BASED ON DATA-MINED REVIEW TEXT WITH

TRANSFORMATION, SPARK/PYSPARK FOR DISTRIBUTED AND SCALABLE ETL, WITH ADDITION OF ALL COMMON DATA

SCIENCE LIBRARIES. AIMING FOR FEATURE PARITY WITH DATABRICKS WHILE STAYING MINIMAL.

Mobile Game Assets Decryption and Datamining tool

REVERSE ENGINEERED GAME FOR ASSETS DECRYPTION FOR GAME "DATE A LIVE: SPIRIT PLEDGE". SCHEDULED PIPELINE

FOR CONTINUOUS UPDATE, DECRYPT, AND DATAMINE DATA.

Frida, Ghidra, GitHub CD/CI

[Repo link],[Data link]

[Project link]

[Repo link]