TAN THIEN TRAN

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SUMMARY

- Experienced in multiple programming languages: Python, R, C#, JavaScript, PHP, and Perl.
- Experienced in developing statistical models for prediction and classification.
- Experienced in conducting bioinformatic analyses with background knowledge: variant annotation, microarray analyses and genome-wide association study.
- Trained in machine learning.

EDUCATION

Bachelor of Pharmacy   Sep 2012 – Aug 2017
University of Medicine and Pharmacy in Ho Chi Minh City   GPA: 6.7/10

Master of Science in Clinical Pharmacology   Sep 2018 – Nov 2020
University of Medicine and Pharmacy in Ho Chi Minh City   GPA: 8.1/10

Bachelor of Information Technology   Sep 2019 - Mar 2022
Vietnam National University Ho Chi Minh City   GPA: 8.7/10

PROFESSIONAL EXPERIENCE

Bioinformatics Analyst   Ho Chi Minh, Viet Nam
Gene Story, Vin BigData   May 2021 – Present

- Illumina GSA microarray analysis for genetic testing.
- Data crawling, processing, and analysis.
- Database building.
- Build data pipeline, computational model to generate genetic testing report from raw data.
- Analysis of hereditary breast and prostate cancer variants in 1000 Vietnamese genomes.

Research Assistant   Ho Chi Minh, Viet Nam
Thong Nhat Hospital, *Department of Pharmacy*   Oct 2018 – Aug 2020

- Evaluate drug use for peritonitis patients.
- Assess response and adverse drug reactions.
- Optimize drug administration for each patient based on individual conditions.

TECHNICAL SKILLS

Programming Language: Python (Advanced), R (Advanced), C# (Intermediate), JavaScript (Intermediate), PHP (Intermediate), and Perl (Basic).

Bioinformatics Tools: VEP, PLINK.

Data Science Framework: Pandas (Advanced), Matplotlib (Advanced), Scikit-learn (Intermediate), TensorFlow (Intermediate), PySpark (Intermediate).

Other Skills: Linux (Intermediate), SQL (Intermediate), Selenium Webdriver (Advanced), ReactJS (Intermediate), Git (Intermediate), Docker (Intermediate), Amazon Web Services (Basic).

CERTIFICATIONS

Coursera

- Deep Learning Specialization, *DeepLearning.AI*
- AI for Medicine Specialization, *DeepLearning.AI*
- Machine Learning Certificate, *Stanford Online*
- R Programming Certificate, *Johns Hopkins University*
- Algorithm for DNA Sequencing, *Johns Hopkins University*

Udemy

- The Complete 2022 Web Development Bootcamp

University of Science, Ho Chi Minh City

- Applied Machine Learning Certificate

RESEARCH EXPERIENCE

Pharmacogenomics

Analysis of deleterious variants in Vietnamese for drug metabolism. Crawling data from Drugbank.com, making Sankey diagrams to show the relationship between variants and drugs in different stages of drug metabolism.

Investigation in the treatment of Intra-abdominal infections at Thong Nhat Hospital

Identify research objective and design research model, collect data and transfer data from the patient's medical record into excel files, using R and Python for processing and analysis: patient's microbiological model, doctor's surgical methods, antibiotics for patients, factors affecting the patient's hospital stay, and data modeling**.**

PUBLICATIONS

- Pharmacogenomics profiling of 1000 Vietnameses of Kinh ethnic. *Manuscript on preparation*.

- Vo Duy Thong, **Tran Thien Tan** (2021): "Effectiveness of antimicrobial stewardship program on treatment of peritonitis at a hospital in Ho Chi Minh City", ***Viet Nam Medical Journal***, 500 (1), March 2021, p. 169-174.

- Vo Duy Thong, **Tran Thien Tan** (2021): "Effectiveness of antimicrobial stewardship program on treatment of cholecystitis at a hospital in Ho Chi Minh City", ***Viet Nam Medical Journal***, 498 (1), January 2021, p. 202-207.

- Vo Duy Thong, **Tran Thien Tan**, Bui T Huong Quynh (2020): "Investigation in the treatment of Intra-abdominal infections at Thong Nhat Hospital", ***Viet Nam Medical Journal****,* 495 (2)*,* October 2020*,* p. 288-292.