

Trinh Dinh Phuc

Curriculum Vitae

Thu Duc, Ho Chi Minh City, Vietnam

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DOB: March 16, 1996



Education

2014–2018 **Bachelor's Degree of Information Technology**, Department of Software Engineering, Telecommunications University (TCU) Vietnam, Aug 2018.

- CGPA: 3.35/4 via 204 credits.

- Thesis: *Pneumonia Diagnosis using Lung's XRay with Depthwise Convolution*.
Final grade: 91/100 (top of the class).

Work Experiences

03/2018 – **Machine Learning Engineer intern (Part time intern)**, CBD Robotics, District 2, Ho Chi Minh City, Vietnam.

Work Learn about and work on the technical side with focus on data analytics with using state-of-the-art Machine Learning, Deep Learning algorithms.

Mini-projects House price prediction, Amazon Reviews, Airline Arrivals, Boston marathon, Author classification.

04/2018 – 7/2018 **Data Analyst intern (Full time intern)**, DevNet, Khanh Hoa, Vietnam.

Work Query performance tuning.

Created A/B testing.

07/2017 – 10/2017 **.Net developer intern (Full time intern)**, SweetSoft Solutions, Khanh Hoa, Vietnam.

Work Developed referral marketing system with .Net and MCV framework.

Lectures Software Architecture Development, SCRUM process, Company Culture.

Research experiences & Projects

June 2018 **Lung nodule Analysis**.

- Extract data from DICOM file.

- Doing Erosion and Dilation in image processing.

- Doing Instance Segmentation.

- Using U-net deep learning architecture, training, testing and validating the model.

April 2018 **Prediction of the FIFA World Cup 2018 using Machine Learning algorithms**.

- Scraping, crawling data using Scrapy, BeautifulSoup.

- Extract, Transform, Load (ETL).

- Cleaning and doing Exploratory Data Analysis (EDA).

- Tuning machine learning model using Grid Search with Cross-Validation.

March 2018 **Pneumonia Diagnosis using Lung's XRay with Depthwise Convolution**.

- Sampling, filtering images, pooling, convolving images for cleaning data.

- Using Inception-v3 deep learning architecture, training, testing and validating the model

- Evaluating learning model with using Precision and Recall.

Interests

- Academic Research in digital signal/image processing algorithms, exploration in data analysis, machine learning and big data.
- Social Traveling, swimming and exploring.

Certifications

- Intro to Python for Data Science Course Datacamp: Introduction fundamental programming concepts including data structures, networked application program interfaces, and databases, using Python to harvest insights and get a competitive edge.
- Intermediate Python for Data Science Course Datacamp: Learn to visualize real data with matplotlib's functions and get to know new data structures such as the dictionary and the Pandas DataFrame. After covering key concepts such as boolean logic, control flow and loops in Python.
- Deep Learning in Python Course Datacamp: Gain hands-on, practical knowledge of how to use deep learning with Keras 2.0. Optimization a neural network with backward propagation, building deep learning models, Fine-tuning keras model.
- Python for Data Science edX: Applied experience in major areas of Machine Learning, including Prediction, Classification, Clustering, and Information Retrieval.
- Python for Everybody Specialization University of Michigan: Introduction advanced programming concepts including data structures, networked application program interfaces, and databases, using the Python programming language.

Award & Honors

- July 2018 **Entropy 2018 - Data Analytics Competition.**
Advanced to the semi-final round of ENTROPY 2018 by JVN (John Von Neumann).
- Feb 2008 **English speaking competition (India - Vietnam) 2018.**
The first prize in English speaking competition of celebrating 13 years of India - Vietnam relations.
- Dec 2016 **CTF - Information security competition.**
The third prize team in capture the flag competition in Da Nang.

Voluntary Experience

- September 2016 **Challenge Vietnam - wearetriathlon!**, CYCLING LEADER TEAM.
With more than 40 races all over the world, athletes from over 30 countries, converged in Nha Trang to face one of the biggest challenges of the year, 1.9km Swim, 90km Bike and 21km Run. Assist athletes medical supports throughout the 90km race by leading volunteers taking their duties.

Skills

- English IELTS 6.5, Toeic 750.
- Vietnamese Native Speaker.
- Programming Languages Python, C/C++, C-Sharp, Java, HTML, CSS, JavaScript, PHP, SQL.
- DataBase LiteSQL, MySQL, SQL Sever, DB2.
- Mathematics Algebra, Calculus, Probability/Statistic.
- NLP Text summary, sentiment classification, text clustering, topic modeling, Bag-of-Words, Word2Vector, Sen2Vec, n-grams, TF/IDF, LDA, LSA, NNMF.
- Computer Vision Corner Detector, Homographies, Image Warping, Augmented Reality.

IDE Anaconda, Jupyter Notebook, Eclipse, Pycharm, pgAdmin4, Navicat.
Office tools Latex, Microsoft Office (Word, Excel, Powerpoint).
System Linux, Windows.

Sources

Linkedin  [Linkedin.com/in/phuccoi96](https://www.linkedin.com/in/phuccoi96)
Github  [Github.com/TrinhDinhPhuc](https://github.com/TrinhDinhPhuc)
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