Phakawat Wangkriangkri

phakawat.wangkriangkri@gmail.com

Los Angeles, CA 90007 (424)-335-6004 linkedin.com/in/phakawat-wangkriangkri

Education

M.S. in Computer Science (Artificial Intelligence), *University of Southern California, USA* **Exp. May 2023**

Courses: Deep Learning and Its Applications, Analysis of Algorithms | **GPA: 4.00/4.00 (Current)**

B.Eng. in Computer Engineering, *Chulalongkorn University, Thailand* **July 2019**

Courses: Pattern Recognition, Natural Language Processing, Game Programming | GPA: 3.97/4.00 (Highest)

Skills

Programming Languages: Python, C++, C#, Java, Javascript, SQL

Data Science: Tensorflow, Pytorch, Numpy, Pandas, Scikit-Learn, OpenCV, Matplotlib, Gensim, NLTK, Google Cloud

Web Development: HTML, CSS, Bootstrap

Software Tools: Git, Linux, LaTeX, MATLAB, NodeJS, Docker, MySQL, Arduino, MS Office

Teaching Experience

Computer Science Teacher | *Satit Pattana Secondary School, Thailand* **August 2020 - December 2020**

- Designed the course syllabus and teaching materials for high school Python Programming class
- Designed and taught MIT Scratch, a block-based coding platform for younger students.

Teaching Assistant | *Chulalongkorn University, Thailand* **August 2019 - January 2020**

- Designed a Google Colab precipitation forecasting using recurrent neural networks for Chula MOOC
- Constructed linear regression exercises for machine learning talk session at Bank of Thailand
- Prepared Named-Entity Recognition NLP workshop at ExxonMobil Thailand

Research Experience

Artificial Intelligence Research Assistant | *Chulalongkorn University, Thailand* **January 2020 - July 2021**

- Conducted NLP research on the robustness (explainability) of deep learning embedding models (ELMo, BERT) for the automated essay scoring task under supervision by Dr. Ekapol Chuangsuwanich
- Developed a Thai speech transcription system using Kaldi + Docker for KBTG's customer service

Research Intern | *Tokyo University of Technology, Japan* **May 2018 - July 2018**

- Implemented a text similarity ranking model using Doc2Vec to sort similar questions from StackExchange under supervision by Prof. Takuya Terasawa

Projects

Thai Handwritten Recognition using Convolutional Neural Networks **May 2020**

- Proposed a computer vision deep learning framework for Thai handwritten recognition model using component-based Convolutional Neural Networks and Connectionist Temporal Classification algorithm

Thai Poem Generator using Recurrent Neural Networks **April 2019**

- Trained a Bidirectional LSTM deep learning model using 30k poems to learn the writing style.

Restaurant Customer Review Sentiment Analysis Individual Study **March 2018**

- Implemented a sentiment analysis on restaurant user reviews using Python on the Wongnai food review app.

Publication

P. Wangkriangkri, C. Viboonlarp, A. T. Rutherford and E. Chuangsuwanich, "A Comparative Study of Pretrained Language Models for Automated Essay Scoring with Adversarial Inputs," 2020 IEEE REGION 10 CONFERENCE (TENCON), 2020, pp. 875-880