

# TANAPON TANTISRIPEECHA

5543 South Dakota Ave NE, Washington, DC 20011 | Tel: 202-498-4658|

Email: [tonytan.tanapon@gmail.com](mailto:tonytan.tanapon@gmail.com) | GitHub&Website: <https://tonytan-tanapon.github.io/>

Authorized to work in the US for any employer (EB-2 NIW Green Card Holder)

## Career Highlights:

- 10+ years of coding experience with C, C++, Java, and Python.
- 6+ years of research experience in AI and Machine learning.
- Strong background in developing educational materials for mathematics and computer science courses.
- Proficient in core data structure and algorithms.
- Excellent experience in database management.
- Ability to supervise the work of undergraduate student.

## Professional Experience

### **Mahidol University** - Mathematics Lecturer

May 2018 – current

Bangkok, Thailand

- Experienced in preparing and delivering lectures to a diverse group of Thai and international undergraduate students.
- Proficient in teaching a wide range of subjects, including Introduction to **Deep learning, Natural Language Processing (NLP), Machine Learning**, Data Science, Database Management, Big Data Analysis, Java and Web Programming, Mobile Application Programming, Software Engineering, Internet of Things, as well as Calculus and Ordinary Difference Equations.
- Provided guidance and support to students undertaking senior projects in the field of Artificial Intelligence.
- Contributed to the academic community by reviewing research papers for international journals and conferences.
- Designed and developed a research project focused on Natural Language Processing (NLP) and Machine Learning.

### **Rajamangala University of Technology Thanyaburi** - Computer Science Lecturer

July 2017 - March 2018

Pathum Thani, Thailand

- Developed and delivered engaging lectures for undergraduate students in diverse subjects, including Artificial Intelligence, Information Systems, and Database Administration.
- Provided guidance and support to students undertaking senior projects within the field of Computer Science.
- Designed and implemented an effective curriculum for an academic year to enhance student learning outcomes.

### **Alphalist** - Freelance consultant

2016-2017

Bangkok, Thailand

- Designed and developed an automatic trading system using Java language via Trader WorkStation (TWS) API.
- Developed trading strategies for the trading system.
- Introduced users to Thailand and international brokers.
- Provided coaching and consultation to users for Trader WorkStation (TWS) program instructions.

### **Polar Bear Technology Group Co.,Ltd** Freelance Programmer

2016-2017

Bangkok, Thailand

- Completed the AmiBroker Course and connected to the China Futures Database.
- Analyzed movements in the US, China, and Thailand stock markets.
- Coded signal models using AmiBroker for market analysis and trading signals.

## **Institute of Information (NII), Internship**

2014

Tokyo, Japan

- Researched and developed logic programming and legal reasoning algorithms.
- Published a paper in the International Conference on Intelligent Computing, 2014.

## **Konrad Adenauer Stiftung fund, freelance programmer**

2008

Germany

- Designed a database and user interface for the Legal Informatics Center Thailand, utilizing PHP and MySQL technologies.
- Developed and deployed a website for the Legal Informatics Center Thailand (currently out of service).
- The website featured a registration system, search system, web board, and database system."

## **Education**

- **Kasetsart University, Thailand** - Doctor of Philosophy Program in Computer Science  
2010-2016. Thesis title: Knowledge base Framework for Civil procedural law, GPA: 4.0/4.0
- **Kasetsart University, Thailand** - Master's Degree in Computer Science  
2008-2010. Thesis title: Supreme Court Sentence Retrieval using Ontology, GPA: 3.68/4.0
- **Khonkaen University, Thailand** - Bachelor's Degree in Computer Science  
2004-2007. Computer project: Digital Classroom Framework, GPA 3.61/4.0 (first-class honors)

## **Scholarship**

- Mahidol University fund, Thailand, Outcome: A novel term weighting scheme for imbalanced text classification. Published in an International Journal of Computing and Informatics, 2022
- Thailand research fund (TRF), Thailand Outcome: A study and development of fact handling in legal expert system. Published in The Journal of King Mongkut's University of Technology North Bangkok, 2016

## **JOURNAL PUBLICATIONS**

- **LegalEX: An Expert System for Law**, the Intelligent Decision Technologies, vol 10, pp. 315–328, 2016.
- **A study and development of fact handling in legal expert system**, The Journal of King Mongkut's University of Technology North Bangkok, 2016.

## **INTERNATIONAL CONFERENCE**

- **A novel term weighting scheme for imbalanced text classification**, An International Journal of Computing and Informatics, Vol 46, No 2, 259–268, 2022.
- **Stock Market Movement Prediction using LDA**, 19th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD). 2018.
- **A Study and Development of Fact Handling in Legal Expert System**, Journal of King Mongkut's University of Technology North Bangkok 27 (3), 523-534, 2017.

## **COMPUTER SKILLS**

- Computer languages: Java, C, C++, C#, JavaScript, Python, Prolog, SQL, .Net, HTML, PHP.
- AI tool: Tensor flow, pytorch, Sklearn
- Computer Tools: Weka, Matlab, Octave, Blender, Adobe Photoshop, Spark.

## **LANGUAGE SKILLS**

Good command in Thai and English.