

# TANAPON TANTISRIPEECHA

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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

- Prepared lectures for Thai and international undergraduate students in subjects including: Introduction to data science, Introduction to programming, Machine learning, Data mining, Database management, Big data analysis, Computer graphics, Java and Web programming, Mobile application programming, Software engineering, Internet of Things, Calculus and Ordinary difference equation.
- Developed and supervised various laboratory activities for computer science courses.
- Assisted students in senior project coursed within the field of Artificial Intelligence.
- Administered research programs and secured funding for them.

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

July 2017 - March 2018

Pathum Thani, Thailand

- Prepared lectures for Thai and international undergraduate students in subjects including: Artificial intelligence, Information System and Database administration.
- Identified suitable research programs for computer science students.
- Assisted students in senior project coursed within the field of Computer Science.
- Supported research initiatives through external resources.
- Designed and implemented an efficient curriculum for an academic year.

### Alphalist - Freelance consultant

2016-2017

Bangkok, Thailand

- Design and develop an automatic trading system using Java language via Trader WorkStation (TWS) API.
- Develop trading strategies for the trading system.
- Introduce users to Thailand and international brokers.
- Provide 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.

## 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

## Internship

Internship at Nation Institute of Information (NII), Tokyo, Japan Outcome: research outcome: Legal reasoning engine for civil court procedure. Published in International Conference on Intelligent Computing, 2014

## Funding and Project:

Konrad Adenauer Stiftung fund, Germany 2008

- Designed database and user interface for Legal Informatics Center Thailand.
- Developed and deployed a website for Legal Informatics Center Thailand (Out of service).
- Technologies used: PHP and MySQL.
- The website included a registration system, search system, web board, and database system.

## 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, Pine Script.
- AI tool: Tensor flow, pytorch, Sklearn
- Computer Tools: Weka, Matlab, Octave, Blender, Adobe Photoshop, Spark.

## LANGUAGE SKILLS

Good command in Thai and English.