

# Woramanot Yomjinda

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## EDUCATION

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MAY 2019 Bachelor of Science in ENGINEERING, **Princeton University**, NJ  
Major: Operations Research and Financial Engineering  
Minors: Statistics and Machine Learning, Finance  
GPA: 3.89/4.00

## PROJECTS AND INDEPENDENT RESEARCHES

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FALL 2018 | MONEY TRANSFERRING PATH OPTIMIZATION OVER MULTI-YEAR PLANNING

PAPER UNDER PROGRESS

Researched an unsupervised model and theoretical exploration for sequential graph problems with multiple layers utilizing maximum mean cycle algorithm under Professor Amir Ahmad Ahmadi's supervision.

SPRING 2018 | POLICY TESTING FOR JET ENGINE'S SUPPLY CHAIN

Simulated and analyzed outcome data to tune the simulation by imposing various policies to prevent shortage and hiccups in the system without directly tuning the parameters.

Developed, under Professor Warren Powell's supervision, a scaled supply chain visualization that was highly praised by and allowed further cooperation with United Technologies.

SUMMER 2016 | ANALYSIS OF RANK 1 PERTURBATIONS IN GENERAL  $\beta$  ENSEMBLES

Researched a proof for generalization of certain random matrix's properties and operations using Jack Polynomial and wrote a paper pending publication under the supervision of Professor Adam W. Marcus.

## RELATED WORK EXPERIENCE

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SUMMER 2018 | Summer Data Scientist Intern at SPIRENT

*Telecommunications*

Prototyped and presented a streaming anomaly-detection program for detecting cell towers' failures in real time and pinpointing possible trouble nodes.

Designed an unsupervised rule-mining algorithm to detect and mine chains of events that potentially lead to error in cell towers.

Developed a meta-heuristics optimizer for AT&T Quality of Experiences score derivation method. The score, calculated from system errors, improved customers' Call Center call rates prediction.

DEC.-JAN. 2018 | Data Scientist Intern at BETIMES SOLUTIONS

*Recommendation system*

Proposed an implementation of a recommendation system for local export e-commerce which gained an approval from the Department of Business Development.

Initiated the prototype for the system with transactions recognition and synergy system in place and planned the future steps for functional expansions.

SUMMER 2017 | Economics Research Intern at BANK OF THAILAND

*Export Sectors*

Utilized a Gravity-styled model to find correlations between Real Effective Exchange Rate and the export amount in five major export sectors.

Discussed the findings at the September's press conference.

Estimated the impact of Bilateral Exchange Rate on Balance of Payments using a Game Theory-styled model.

## CLASS AND OTHER SCHOOLWORK PROJECTS

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- FALL 2018 | **SENTIMENTAL STOCK ANALYSIS ON REDDIT FORUMS WITH NATURAL LANGUAGE PROCESSING**  
PAPER UNDER PROGRESS  
Utilized Reddit API to scrape data from trading forums to fit recurrent neural network and vector space models on semantics with loss function on simulated portfolio under Professor Karthik Narasimhan's supervision.
- FALL 2018 | **ANALYSIS OF PATIENT TIME OF ADMITTANCE AND QUALITY OF CARE WITH UNSUPERVISED CLUSTERING**  
PAPER UNDER PROGRESS  
Fitted a clustering algorithm over UPenn medical record data to determine the factors which contribute to a disparity in quality of care under different admittance times under Professor Barbara Engelhardt's supervision.

## OTHER WORK EXPERIENCE

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- SUMMER 2018 | **Summer Analyst Intern at AURA CAPITAL**  
*M&As & IPOs*  
Provided fundamentals analysis and DCF evaluation of OSOTSPA, an energy drink market leader in Thailand, IPOs to the managing director who later acted as OSOTSPA IPOs advisor.  
Presented underlying factors for OSOTSPA evaluation and proposed possible synergies and potential merger targets.
- SUMMER 2017 | **Summer Engineer Intern at PRUDENTIAL**  
*Portfolio Optimization*  
Solved an optimization problem on long-term risk/return profiles calibration by creating an assets-reallocation optimizer, reducing the company risk charges by about 10%.
- SUMMER 2017 | **Engineer Intern at KTBST**  
*Algorithmic Trading*  
Developed an algorithmic trading platform and investment strategies that could scrape and incorporate current news data into decision-making process.
- SUMMER 2016 | **Analyst Intern at DSW INVESTMENT**  
*Fundamental Trading*  
Evaluated fundamentals of a business in Pharmaceutical industry by doing due diligence on the company and summarizing key multiples from quarterly reports.

## SCHOLARSHIPS AND CERTIFICATES

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- SEPT. 2015 | **King Scholarship**, highest honor scholarship for Thai students to study undergraduate degree in the United States fully-funded and without work obligations.  
(Non-binding)

## LEADERSHIP ACTIVITIES

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- FALL 2018 | **Vice President at PRINCETON CORPORATE FINANCE CLUB**  
*Head of Trading Division*  
Managed portfolio with high delta, high leverage strategy and assisted club members in optimizing their risk profiles to match their long and short term investment goals.  
Oversaw bi-weekly options and stocks' review sessions, invited guest speaker to speak in club event, and planned trading competition (pending approval).
- SPRING 2017 | **Teaching Assistant at PRINCETON UNIVERSITY**  
*Theory of Games*  
Led a two-hour Office hours session on a weekly basis to assist students in understanding the more complicated theories or proofs taught in the class.  
Held weekly homework sessions for students taking the course.

## TECHNICAL SKILLS

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- Basic Knowledge: JAVA, LINUX, ubuntu, SPARK, KAFKA, TENSORFLOW  
APACHE (Hadoop, Zeppelin, HDFS), HTML, C++,
- Advanced Knowledge: SQL, PYTHON, R, SCIKIT-LEARN, PANDAS, NLP, Random Forest, Deep Learning