

**VANISA ACHAKULVISUT**  
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## EDUCATION

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### UNIVERSITY OF ILLINOIS AT CHICAGO

Chicago, IL

*Master of Science in Business Analytics, December 2021*

August 2020 – Present

Relevant coursework: Machine Learning, Big Data Analytics, Deep Learning, Data Visualization

GPA 3.88/4.00

- **Loan Default and Return Prediction (R)**

Led a team of 3 to create robust tree-based predictive modeling of loan default and annual returns to support the investment approach resulting in projected annual increase of 22.4%.

- **Real-time Twitter Sentiment Analysis (PySpark, AWS)**

Built sentiment analyzer to understand hashtag polarity on AWS virtual machine using text data retrieved from Twitter API.

- **Text Structure Production (Python)**

Developed Generative Adversarial Network (GAN) model to facilitate authors writing complex structure novel.

- **Airline Performance Analysis based on Chicago (Tableau)**

Identified airlines' operational performance issues and provided competitive solution strategies.

- **Activities:** Quantitative Trading Club: Club Secretary, Co-organized Trading Workshop and Competition.

### CHULALONGKORN UNIVERSITY

Bangkok, Thailand

*Bachelor of Engineering in Chemical Engineering, June 2017*

May 2013 – June 2017

Relevant coursework: Economics for Engineering, Process Design

GPA 3.24/4.00

- **Activities:** Volunteer Teaching Club: Academic Leader, Pre-Engineering Camp: Organized event and solicited sponsorships.

## TECHNICAL SKILLS

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- Advanced skills of programming languages: Python, R, SQL, VBA.
- Profound knowledge of Machine Learning and Deep Learning Libraries: Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch.
- Proficient user of Data Visualization tools & Analytics Software: Tableau, PowerBI, SAS.

## EXPERIENCE

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### YMY SOLUTIONS

Chicago, IL

*Research Analyst Intern*

June 2021 – August 2021

- Conducted market research, evaluated company financial statements and growth prospects via DCF and M&A model.
- Improved business systems using Systems Development Life Cycle (SDLC) concept in Business Intelligence Platforms.

### BANGKOK BANK PUBLIC COMPANY LIMITED

Bangkok, Thailand

*Portfolio Management Analyst, Portfolio Management Unit*

August 2019 – August 2020

- Raised overall profit 5% per portfolio through collaborative optimization strategy with Analytic and Policy teams.
- Automated Portfolio Dynamic Profile input process saving 20% of times per decision cycle. (VBA, SAS, SQL)
- Built statistic-based loss forecasting models and balanced default risk of loan portfolios. (VBA, SAS)
- Investigated economic behavior from survey data and performed stress tests to forecast Covid-19 impact on enterprise.

### TECHNIP FMC

Bangkok, Thailand

*Process Engineering Consultant, Process Department*

September 2017 – June 2019

- Conducted economic safety integrity analysis on a \$30M revamping project in refinery system. (Aspen)
- Optimized thermo-fluid energy consumption and modified pipe route resulting in cost reduction for \$200K annually.
- Designed General Offshore Oil & Gas Wellhead Platform Guidance applicable to all resources in the Gulf of Thailand.

### SIAM CEMENT GROUP PUBLIC COMPANY LIMITED

Rayong, Thailand

*Utility Engineer Intern, Siam Mitsui PTA*

June 2016 – August 2016

- Assessed economic evaluation and project feasibility study on floating solar farm potentially arise income \$30K annually.