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EDUCATION

Chulalongkorn University

2022 - Present

Bachelor of Engineering - Computer Engineering Major. GPA: 3.48

- Relevant Coursework: Pattern Recognition (Deep Learning), Natural Language Processing Systems (NLP), Algorithm & Data Structures, Database Systems, Optimization, Statistics, Signal Processing.

Triam Udom Suksa School

2019 - 2022

Science-Mathematics Major. GPA: 3.85

- *Thailand Physics Olympiad (TPhO)* - 19th TPhO: Bronze Medal, 18th TPhO: Participated
- *Triam Udom Photo Club (Staff and Member)* - Captured photos at various school events.

WORK EXPERIENCE

Data Scientist Intern - Kiatnakin Phatra Bank

June 2024 - July 2024

- *Used Car Price Forecasting*
 - Developed ensemble machine learning models to forecast used car prices, aiding strategic decisions for automotive loan approvals.
 - Collected and cleaned real-world business data, incorporating macro- and micro-economic factors.
 - Leveraged time-series analysis and Bayesian optimization techniques for enhanced accuracy.
- *Loss On Sale Forecasting for NPLs*
 - Built predictive models to estimate losses on Non-Performing Loans (NPLs), improving the bank's credit risk management.
 - Applied techniques like coarse classing, binning, and memory optimization to improve performance.

Freelance

- *Physics & Mathematics Tutor* - Provided tutoring for Physics Olympiad camp, university admissions.
- *Photographer* - Portfolio: [instagram.com/pupick.sk](https://www.instagram.com/pupick.sk) - Photographed various events and private sessions.

EXTRACURRICULAR ACTIVITIES & ACHIEVEMENTS

Aihack Thailand 2023 - AI Hackathon | Awarded 1st prize and best performance prize.

December 2023

- Created a machine learning model to forecast credit default risk.

Stock Return Forecasting with Portfolio Optimization Project

April - May 2024

- Developed an alpha factor model to forecast stock returns using classical ML and LSTM networks.
- Designed and implemented quantitative trading strategies, leveraging historical data for backtesting.
- Integrated portfolio optimization techniques to maximize returns while minimizing risks.

Machine Learning for Fundraising Campaigns - SAS xCBS Hackathon Season 4 | 4th Place

October 2024

- Created a targeted marketing model to improve donor outreach through a 2-stage ensemble model, achieving precise donor predictions and effective cost management.

Investment Portfolio Analytics Dashboard Web App

November 2024

- Developed an OCR/LLM-powered system to extract and organize investment data, integrating market data.
- Built and deployed a dashboard to calculate performance metrics e.g., ROI, Sharpe Ratio, Volatility, CVaR.

Participation in Business Case Competitions

2023

- *Hult Prize at Chulalongkorn* - Developed a social enterprise idea aligned with the UN SDGs.
- *Chulalongkorn Case Discovery x Ascend Money* - Formulated a strategy for financial services application.

Certifications

- *Financial Engineering and Risk Management Specialization* - Columbia University November 2024
- *Machine Learning Specialization* - DeepLearning.AI & Stanford University August 2024
- *Google Data Analytics Professional* - Google July 2023

MISCELLANEOUS

Technical Skills

Programming Languages: Python, SQL, C++, C, HTML, CSS, LaTeX, Markdown

Programming Libraries: PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Plotly, Streamlit

Applications: Excel, Power BI, Tableau, Git, GitHub

Languages: Thai (Native), English

Interests: Business, Economics, Politics, Books, History, Philosophy