Pupipat Singkhorn

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EDUCATION

Chulalongkorn University ⸻ 2022 - 2026
Bachelor of Engineering – Computer Engineering Major. GPA: 3.56
- *Teaching Assistant* - Programming Methodology course
- *CU Finance Club* - Academic Team
- Additional Coursework: Financial Engineering, Thai Economy, Law, European Union Integration

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

Quantitative Research Intern – Soberin ⸻ Aug 2025 - October 2025
- Analyzed cryptocurrency market microstructure to identify signals for quantitative trading strategies.

Risk Management Analyst Intern – SCBX ⸻ May 2025 - July 2025
- Conducted Risk & Control Self-Assessments (RCSA) across 12 SCBX subsidiaries, identifying key risks and facilitating entity-level assessments to improve group-wide risk visibility.
- Data Loss Prevention (DLP) - Designed the end-to-end incident response process, built PoC operational tools (automation prototypes, tracking templates, dashboards), and explored ways to improve process efficiency.

Data Scientist Intern – Kiatnakin Phatra Bank ⸻ June 2024 - July 2024
- *Used Car Price Forecasting* - Built ensemble models with time-series analysis and Bayesian optimization to forecast used car prices from real-world, economically-informed data, aiding loan decisions.
- *Loss On Sale Forecasting for NPLs* - Built models to estimate NPL losses using coarse classing, binning, and memory optimization to improve performance and support credit risk management.

Physics & Mathematics Tutor ⸻ 2022 - Present
- Students admitted to Chula Engineering and International School of Engineering (ISE).

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.

Rotman Trading Simulation Challenge x Chulalongkorn ⸻ July - August 2025
- Ranked 8th, trading Liability, ETF Arbitrage, and Commodities with a focus on high-pressure decision-making.

Fine-Tuning Large Language Diffusion Models for Thai News Summarization ⸻ March - May 2025
- Fine-tuned and evaluated a diffusion-based LLM (LLaDA) for Thai news summarization, using LLM-as-a-Judge (QAG) to benchmark against autoregressive models and test context strategies (MapReduce vs. Refine).

CUVI Stock Pitching | Finalist ⸻ March - April 2025
- Conducted equity research on a SET-listed company and presented findings to industry professionals.

Investment Portfolio Analytics Dashboard Web App ⸻ November 2024
- Built an OCR/LLM system to extract investment data and integrate with a market data API, then deployed a dashboard to calculate key performance metrics such as ROI, Sharpe Ratio, Volatility, and CVaR.

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, PowerPoint, Power BI, Tableau, Git, GitHub
Languages: Thai (Native), English
Interests: Business, Economics, Politics, Books, History, Philosophy