Pattaraphon (Kenny) Wongchamcharoen

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Education

University of California, Berkeley *Aug 2023 – May 2027*

B.S. in Industrial Engineering & Operations Research, Minoring in Data Science

GPA: 3.98/4.00

- **Relevant Coursework:** Principles & Techniques of Data Science, Computational & Data Structures, Linear Algebra & Differential Equations, Multivariable Calculus, Probability & Stochastic Processes, Optimization Methods & Algorithms, Machine Learning, Engineering Statistics, Quality Control and Forecasting

Skills & Awards

Technical skills: Python, Java, SQL, Apache Spark, Sklearn, Pandas, NumPy, Seaborn, TensorFlow, Matplotlib

Tools: Tableau, CRM (Jira, Asana, Notion), Microsoft Suite (Excel, Word, PowerPoint, Power BI), VS Code

Experience

Summer Research Fellow *New York, NY*

Columbia Business School – Decision, Risk, and Operations Division *June 2025 – Aug 2025*

- Selected as 1 of 15 interns from 1,000+ applicants for a highly prestigious data science research program
- Collaborated with Professor Paul Glasserman ☑ to empirically investigate whether large language models (LLMs) understand chronology, contributing to ongoing research in LLMs' sequential forecasting ability
- Built and deployed a full experimental pipeline in Python on GitHub ☑, leveraging GPT-4.1 and other LLMs APIs to simulate event ordering tasks and evaluate LLMs' chronological reasoning at scale
- Developed a statistical evaluation framework to compare different large reasoning models (GPT-o3, Claude Sonnet 3.7) using metrics such as Kendall's Tau, with findings forming a basis for a potential publication

Data Analytics Extern *Culver City, CA*

Beats By Dre *June 2024 – Aug 2024*

- Conducted exploratory data analysis and sentiment analysis on 1,000+ Amazon reviews of Beats Pill speakers using TextBlob, NLTK, and Scrapy, uncovering consumer patterns that informed product strategy
- Utilized advanced NLP techniques and Google's Gemini API to extract, summarize, and analyze customer feedback, improving data processing efficiency by 50% and driving more actionable insights
- Designed and presented Tableau dashboards highlighting customer sentiment and purchase trends, leading to a 20% improvement in Beats' market positioning and brand strategy in the mid-sized speaker segment

Product Development & Analytics Intern *Singapore, Singapore*

Xcube Capital *May 2024 – Aug 2024*

- Scraped and analyzed job postings from JobsTimes using BeautifulSoup to identify emerging career trends and skill gaps; built machine learning models with over 80% accuracy in forecasting HR Tech job demand
- Automated internal workflow using SQL queries to optimize the company's CRM database; integrated email scheduling via SMTP and Python's schedule library, resulting in a 90% reduction in manual processing time
- Conceptualized a Proof of Concept (PoC) for a new proprietary asset class—Corporate Venture Portfolio Equities ☑ —in collaboration with the CEO, targeting synergistic investments in Behavioral AI startups

Projects

Delay-Aware Flight Route Optimization *GitHub Repo ☑*

- Predicted major airline delays and cancellations using gradient boosting and random forest models; integrated results into a single-stage robust stochastic optimization model to minimize the delay-to-cost ratio

Option Pricing Optimization *Poster ☑*

- Developed a Mixed-Integer Linear Program (MILP) for options pricing strategy at Wells Fargo Case Competition; placed 2nd out of 30+ teams and awarded $600. Presented at Berkeley IEOR Alumni Celebration