## TEETAJ (TJ) PAVARITPONG

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## Education

## University of Illinois Urbana-Champaign

B.S. in Statistics & Computer Science; GPA: 3.54 / 4.00 ; ACT: 34/36

Relevant Coursework: Algorithms, Computer Systems, Database Systems, Distributed Systems (*enrolled*), Numerical Methods, Statistical Modeling, Stochastic Processes, Machine Learning, Programming Languages & Compilers

## Work Experience

Software Engineer Intern	May 2024 – Aug 2024
, ,	New York, NY, USA
<ul> <li>Designing &amp; implementing an internal tool based on Retrieval-Augmented Generation Python, Azure, Databricks, Docker, and LangChain; fine-tuning open-source LLM model</li> </ul>	
Agoda	Jan 2023 – Jun 2023
Data Engineer Intern	Bangkok, Thailand
<ul> <li>Migrated Google Ads API report downloader applications using Hadoop, Spark, Hive</li> <li>Optimized algorithm performance, reducing runtime from 4 hours to 20 minutes</li> <li>Resolved 2 critical production incidents in ML pipelines for ad bids</li> <li>Implemented SQL validation for anomaly detection</li> <li>Developed a Slack bot using Python &amp; GPT-3 for explaining SQL and Spark ETL pipe</li> </ul>	
Zipmex	Jun 2022 – Jul 2022
Software Engineer Intern (Frontend)	Bangkok, Thailand
<ul> <li>Revamped the cryptocurrency exchange's website with new React components matchi</li> <li>Enabled dark/light theme support with CSS modifications</li> </ul>	0
<ul> <li>Wrote test cases and improved type inference using Jest.js and TypeScript to catch &amp; p</li> </ul>	prevent bugs in codebase
Central Group	Jun 2019 – Aug 2019
Software Engineer Intern (Mobile)	Bangkok, Thailand
<ul> <li>Integrated barcode-scanning library into Ionic/Angular mobile app, optimizing wareh</li> <li>Utilized Tesseract.js OCR for product information extraction from receipts, saving ret</li> </ul>	
Projects & Involvement	
<ul> <li>QuantIllinois   Python, PyTorch, NumPy, Pandas</li> <li>Researching &amp; implementing trading strategies for student-run investment fund</li> <li>Modeled options data using time series and deep learning techniques and backtested strategies</li> </ul>	Sep 2023 - Present various strategies
<ul> <li>Sociological Factors Affecting Number of Days Absent from School   <i>R</i>, <i>ANOVA</i>, <i>LATEX</i></li> <li>Performed Box-Cox transformation on data then fitted a multi-way ANOVA model</li> <li>Found a significant three-way interaction between race, learner type, and school level</li> </ul>	Dec 2023 on the number of absences
<ul> <li>Analysis of IMDb Movies Data Set: Estimating U.S. Gross Revenue   <i>R</i>, <i>Linear Regression</i>,</li> <li>Conducted exploratory data analysis and cleaned data to make it suitable for analysis</li> <li>Fitted a multiple linear regression model to predict the U.S. gross revenue of new mov IMDb data; Validated model by performing regression diagnostics</li> </ul>	and model fitting
Illini CC'd: Credit Card Recommender (Team Lead)   <i>React, Node.js, MySQL, GCP, Materia</i> • Led team in designing database schema, scraping the web for credit card offers, develo	-
front-end, and hosting on GCP	
	May 2022 identifying airport hubs

Expected Graduation: Dec 2024