Paul Kim

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EDUCATION

Northwestern University   **Evanston, IL**

Bachelor of Science in Industrial Engineering, Double Major in Economics   *Jun 2026 (Expected)*
Minor in Business Institutions, Kellogg Certificate Program for Undergraduates in Managerial Analytics

- GPA: 3.7/4.0
- Relevant Coursework: Honors Calculus for Engineers, Principles of Finance, Statistical Learning for Data Analysis

RELEVANT EXPERIENCE

Republic of Korea Army   **Seoul, KR**

Fire Direction Control Squad Leader, Sergeant   *Sep 2022 – Mar 2024*

- Performed calculations and measurements as horizontal-vertical control operator (HVCO) in FDC unit
- Orchestrated weekly training sessions for squad of 4 and won first place in the brigade's annual performance evaluation
- Operated chemical detection equipment as part of Chemical, Biological, Radioactive, and Nuclear Reconnaissance Office

Sievo   **Chicago, IL**

Data Management Specialist Intern   *Jun 2022 – Aug 2022*

- Classified and consolidated client spend data using T-SQL, Qlik, Excel, and internal company dashboard
- Orchestrated monthly data imports for 3 clients, leveraging Jira, PowerBI, and MS SQL, ensuring timely delivery of data
- Oversaw weekly ticket influx and distributed unclaimed tickets across the team to achieve 100% first response rate
- Spearheaded new AI algorithm integration, improving tail spend classification by 30%+ across 4 client companies

Global Research and Consulting Group (Kellogg)   **Chicago, IL**

Project Leader, Epilepsy Foundation of Greater Chicago   *Oct 2021 – Feb 2022*

- Took charge of client communication, delivered progress reports, and managed project timeline for team of 5
- Cleansed and reorganized epilepsy training data for 366 schools in the Chicagoland area using Microsoft Excel
- Constructed an interactive Tableau dashboard with geolocation features and a searchable filter for use of lawmakers

PROJECT EXPERIENCE

Tesla Stock Volatility Project   **Seoul, KR**

Independent Project   *May 2023 – Jul 2023*

- Leveraged TensorFlow with GARCH and LSTM models to capture Tesla's volatility dynamics with 90.17% accuracy
- Performed cointegration analysis with Meta stock returns using VECM and residual analysis after bootstrapping
- Attained 97.85% accuracy in predicting stock volatility by applying ARIMA modeling with GridSearchCV optimization

MLB All Star Predictor   **Seoul, KR**

Independent Project   *Jan 2023 – May 2023*

- Performed Bayesian optimization to tune hyperparameters in 6 different classification algorithms via Python
- Achieved 89% accuracy of predicting a player's chances of being selected as MLB All Star using LGBM classifier
- Utilized Shapley summary plots to gauge the importance of team popularity as well as individual and team performance

Block Sight not Heat   **Evanston, IL**

Team Leader   *Apr 2022 – Jun 2022*

- Directed a team of 4 in the innovative design of a house aimed at addressing extreme diurnal temperature variations
- Created final prototype, published a 43-page report on design process, and presented a 15-minute pitch on final output
- Applied the original model to Northwestern's quarantine housing facility as part of a secondary report

ADDITIONAL INFORMATION

Technical skills: Python, R, SQL, Excel – advanced; TensorFlow, Java - intermediate; MATLAB, HTML/CSS/JS - basic
Languages: English (Native), Korean (Native), Chinese (Proficient), Spanish (Basic), French (Basic)