

## SUMMARY

Operations Research graduate with strong foundations in optimization, business analytics, and modeling. Skilled in Python-based automation, ERP data processing, demand forecasting, and risk assessment, applying tools such as Gurobi, KNN, Random Forest, and XGBoost models to drive operational efficiency and data-driven decision-making. Proven ability to lead cross-functional projects and convert complex data into actionable insights across tech, finance, and healthcare domains.

## EDUCATION

### Columbia University (SEAS, STEM)

New York, NY

#### Master of Science in Operations Research

Sep 2025 – Nov 2026 (Expected)

- Core Courses: Optimization Models and Methods, Stochastic Models, Simulation, Business Analytics, Applied Financial Risk Management, Introduction of Financial Engineering, Machine Learning FE & OPR ...

### Shanghai University (SILC Business School, AACSB)

Shanghai, CN

#### Bachelor of Finance

Sep 2021 – Jun 2025

#### President of Financial Elite Club

Oct 2021 – Dec 2023

- Core Courses: Financial Programming & Computing, Financial Data Analysis and Forecasting, Block Chain and Supply Chain Finance, Financial Risk Management, Fixed Income Securities, Investment Banking ...

## INTERNSHIP EXPERIENCE

### Orion Arm

Shanghai, CN

#### Market Growth & User Analysis Intern

Aug 2024 – Dec 2024

- Project: Dola AI (Now Toki AI, Focusing on South America & Europe Markets)  
- Workflow Automation: Engineered a Python-based automation agent utilizing LLMs to auto-generate marketing workflows; successfully reduced manual documentation time and streamlined the content production supply chain (15+ drafts weekly).  
- Process Optimization: Led A/B testing and data analysis for Google Ads SEM, optimizing conversion rates (CVR) and driving 200k new user acquisitions through data-driven strategy adjustments.  
- Data-Driven Segmentation: Applied KNN on user feedback data to refine customer segmentation, directly informing product feature iterations and operational strategy.

### Sinopharm Group

Shanghai, CN

#### Financial Data & Risk Analysis Intern

Jun 2024 – Aug 2024

- Department: Shanghai Hospital Sales Management Headquarters | Accounts Receivable (AR) Team  
- Supplier Risk & Performance Analysis: Conducted comprehensive risk assessment on Q2 supplier data using decision trees; identified key bottlenecks in the supply chain and provided actionable insights to reduce operational risks.  
- Forecast Accuracy Improvement: Enhanced demand and sales prediction models by integrating Random Forest and XGBoost, achieving a 12% increase in accuracy to support better inventory planning and resource allocation.  
- ERP Data Management: Managed and cleaned 4 months of high-volume transactional data within the ERP system; utilized SQL to streamline data entry processes and ensure data integrity for cross-functional teams.

## RESEARCH & PROJECT EXPERIENCE

### Eliminating Child Care Deserts in New York State through Optimization

New York, NY

#### Columbia University | Supervisor: Dr. Yaren Bilge Kaya

Sep 2025 – Nov 2025

- Network Design & Optimization: Formulated a Mixed-Integer Linear Programming (MILP) model in Python (Gurobi) to solve a facility location problem, optimizing the expansion strategy under strict constraints of cost, distance, and capacity.  
- Strategic Decision Support: Simulated various expansion scenarios to maximize service coverage while minimizing operational costs; developed Geospatial Heatmaps to visualize optimal site locations for stakeholders.

### Pandora Radio — User Recommendation Modeling

New York, NY

#### Columbia Business School | Supervisor: Dr. Adam Elmachtoub

Oct 2025

- Algorithm Modeling: Built a KNN-based similarity model using user-song interaction data to predict new song preferences.  
- Result Insight: Achieved 25% higher match accuracy over random baseline, revealing the dominance of similarity features in personalized recommendations.

### PricewaterhouseCoopers (PwC) Anchor Business Training

Shanghai, CN

#### Participant

Feb 2022 – Mar 2022

- Conducted comprehensive market research for a potential coffee shop business, focusing on key areas such as cost analysis, site selection, and business entity structuring  
- Performed analysis based on statements to identify potential financial risks and wrote a multi-quarter business plan  
- Authored a professional business plan and created a compelling presentation, earning the 'Best Team' award

## SKILLS

### Programming:

Python, SQL, R, MATLAB, Stata

### Python Packages:

NumPy, Pandas, Matplotlib, Gurobi, PyTorch, XGBoost

### Optimization Methods:

Linear and Integer Programming, Nonlinear and Stochastic Optimization

### Statistical Tools:

Probability Theory, Statistical Inference, Regression Analysis, Game Theory