

Jiajun Tang (Open to Relocate)

jt3631@columbia.edu | +1 (347) 506-7664 | +86 180- 0183-5817 | www.linkedin.com/in/JT0721

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