Fangning Gan

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Aspiring Quantitative Analyst | Financial Engineering | Data-Driven Research | Python, C++, SQL

EDUCATION

University of International Business and Economics (UIBE) — Beijing, China

Bachelor of Science in Financial Engineering (Quantitative Finance Track)
Expected Graduation: June 2026

Relevant Coursework: Stochastic Processes, Financial Data Processing (SAS), Python for Financial Applications, C++ Programming, Fixed Income Securities Analysis, Machine Learning, Operations Research, Numerical Methods in Finance

PROFILE SUMMARY

Second-year Financial Engineering student with strong academic grounding in quantitative methods, statistical modeling, and computational finance. Skilled in Python, C++, and SQL with experience conducting data-intensive research projects and financial analysis. Adept at integrating theory and programming to solve real-world finance problems, including portfolio optimization, macroeconomic modeling, and fintech innovation. Seeking internship opportunities in quantitative research, financial modeling, or data analysis roles.

PROFESSIONAL EXPERIENCE

CDH - Beijing Dinghui Venture Investment Advisory Co., Ltd.
Investment Research Intern — Beijing, China
Jan 2024 – Feb 2024

• Conducted industry-level research in emerging tech sectors such as MEMS, satellite laser communication, and low-altitude economy.
• Analyzed company financials and sector reports to support due diligence and valuation benchmarking.
• Drafted internal reports and summaries for investment team presentations, honing financial research and synthesis skills.

PROJECTS & COMPETITIONS

"TAO Pension Fund" – AI-Enhanced Personalized Investment Advisory | Outstanding Research Project | Nov 2023 – Nov 2024

• Designed a robo-advisory pension product integrating virtual human interaction, behavioral finance principles, and portfolio optimization algorithms.
• Applied data analytics, scenario modeling, and investment strategy simulation to deliver tailored retirement solutions.

National College Statistical Modeling Competition – "Gig Economy in the Digital Age" | Third Prize | Feb 2024 – May 2024

• Built an OLS regression model using SPSS to assess macroeconomic impacts on gig labor participation.
• Interpreted statistical outputs to support policy-oriented conclusions.

National College Statistical Modeling Competition – "Rural Tourism Development Index" | Second Prize | Feb 2024 – May 2024

• Constructed an index using PCA and TOPSIS to evaluate tourism policy effectiveness and regional disparity.
• Conducted Python-based data analysis and visualization.

"Challenge Cup" – Financial Q&A Chatbot Prototype | Third Prize (Beijing) | Feb 2025 – May 2025

• Developed a LangChain + LoRA-based chatbot to simulate investor Q&A workflows.
• Integrated database querying and interactive UI using Streamlit.

LEADERSHIP & CAMPUS EXPERIENCE

Class Monitor | University of International Business and Economics | 2022 – Present

• Coordinated peer academic support and organized over 15 events.
• Helped the class earn “Outstanding Class Collective” and “Excellent Youth League Branch” honors.

Project Coordinator – Student Union, School of Finance | 2022 – 2024

• Directed innovation project applications and tracked research proposal reviews.
• Supported students through the academic submission pipeline.

Drama Club – Stage Manager & Performer | 2023 – Present

• Managed backstage operations and participated in theatrical productions.

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL, MATLAB, SAS, SPSS

Financial Applications: Portfolio Optimization, Risk Modeling, Time Series Analysis, Numerical Methods

Data Tools: Pandas, NumPy, Matplotlib, Streamlit, LangChain, Excel

Statistical Techniques: PCA, OLS Regression, Entropy Weighting, TOPSIS, Clustering

Languages: Mandarin (native), English (fluent)

HONORS & AWARDS

• Third Prize – “Challenge Cup” Academic Competition (Beijing), 2025
• Second Prize – National Statistical Modeling Competition, 2024

• Third Prize – National Statistical Modeling Competition, 2024
• “Outstanding Class Collective” & “Excellent Youth League Branch” (2023–2024)

KEYWORDS FOR LINKEDIN & ATS

Quantitative Finance | Financial Engineering | Investment Research | Python for Finance | Portfolio Optimization | Machine Learning in Finance | Risk Modeling | Statistical Analysis | C++ Programming | Econometrics | Data Analysis | Financial Modeling | Asset Allocation | Macroeconomic Forecasting | Fintech Innovation