Beatrice K Lee

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY **Atlanta, GA**
Master of Science in Quantitative and Computational Finance *Expected Graduation: May 2026*
- Relevant Coursework: Derivative & Fixed Income Securities, Numerical Methods in Finance, Data Mining & Stat. Learning

GEORGIA INSTITUTE OF TECHNOLOGY **Atlanta, GA**
Bachelor of Science in Industrial and Systems Engineering *Graduated: December 2024*
- Concentration in Economic and Financial Systems
- GPA: 3.86/4.00 – Highest Honors

EXPERIENCE

SAMSUNG AUSTIN SEMICONDUCTOR (SAS) **Austin, TX**
ISYE Senior Design – Finalist in Competition *August 2024 – December 2024*
- Collaborated with a team to build a Python simulation of flow at the etch step of SAS's semiconductor manufacturing process.
- Designed optimization policies, including a mixed-integer program solution, to provide SAS with 29% cost savings at etch.
- Conducted financial analysis to evaluate the impact of proposed policies over time and presented findings to SAS's VPs.

POREX **Atlanta, GA**
Supply Chain Intern *January 2023 – May 2023*
- Engineered a dynamic map in Power BI to visualize and track freight movement across over 100,000 freight lanes.
- Developed a modular Bill of Materials (BOM) tool in Power BI, utilizing DAX for advanced querying of Oracle data to present detailed supply chain information for over 10,000 products, including raw material breakdowns.
- Built a materials sourcing matrix that allows engineers to find sources for over 1,000 raw materials using VBA in Excel.

NCR **Atlanta, GA**
Technical Consulting Intern *May 2022 – August 2022*
- Created tailored solutions for five clients through in-depth analysis of client needs and NCR's service capabilities.
- Presented a research project on future retail loyalty trends to consulting VPs, offering insights for strategic decisions.
- Constructed a predictive customer lifetime value model from 2 years of data using Python and pandas data frames.
- Investigated customer loyalty in the retail space by performing detailed store visits and creating case studies.

PROJECTS

Campaign Finance Data ML & Visualization Project
- Applied a Hierarchical Clustering Algorithm in Python to understand patterns in over 1MB of financial data.
- Developed a novel interactive visualization tool for our cluster results using JavaScript and HTML.

Database Development Project
- Created an Enhanced-Entity-Relationship Diagram (EERD) based on the client's description of the system.
- Implemented the EERD in SQL, and wrote over 50 practical functions, views, and stored procedures for the database.
- Designed a GUI in Python (using PyQt5) for users to perform functions and view data.

Understanding Sustainability Goals Project
- Assessed patterns in over 50KB of UN Sustainable Development Goals data using regression and forecasting techniques in R.
- Produced satisfying graphics using Python and R to represent key findings.

INVOLVEMENT

H. Milton Stewart School of Industrial and Systems Engineering **Atlanta, GA**
Capital Investment Analysis (ISYE 4311) Teaching Assistant *August 2024 – Present*
- Held weekly office hours to provide guidance to students seeking extra help with course material.
- Assisted in the grading process for homework and exams.

Nantahala Outdoor Center **Long Creek, SC & Roswell, GA**
Head River Guide (Seasonal Position) *May 2020 – August 2024*
- Led groups of 6-8 customers on white water rafting trips on class IV and V whitewater.
- Managed daily operations by effectively allocating resources and over 25 staff to put over 300 boats on the water per day.
- Interviewed and hired approximately 10 new River Guides for 2 locations.

Phi Mu Theta Zeta **Atlanta, GA**
Sisterhood Development Chairwoman *September 2020 – May 2024*
- Provided leadership on the executive board, making critical decisions to guide the chapter's direction.
- Organized and ran 12 events accommodating for participation of over 100 chapter members.

SKILLS

Technical: Python, SQL, R, HTML & CSS, Excel, VBA, Java, Gourbi Optimizer, Cloud Computing, PowerBi (DAX), Tableau, Simio