

Zhenyi (Annie) Cheng

Mobile: +1 (607) 280-4824

www.linkedin.com/in/zhenyicheng

Email: zc375@cornell.edu

EDUCATION

Cornell University, *Operations Research and Information Engineering*

Bachelor of Science & Master of Engineering

Strategic Operations Concentration, GPA: 3.83

Graduate Teaching/Research Specialist (GTRS) Scholarship, Dean's List

Expected May 2023

Relevant Coursework: Supply Chain Management, Strategic Operations, Transportation Sys & Networks, Optimization in Finance, Management Consulting, Managerial Accounting, Big Data Tech, NLP, Monte-Carlo Simulation, Stochastic Processes, Game Theory

Softwares: Proficient with Python, SQL, Gurobi, Excel, HTML, Tableau, VSM process; comfortable with MATLAB, R, Java, Simio

Skills: Business Intelligence, Project Management, Systems Thinking, Digital Transformation, Sustainable Development

EXPERIENCE

Cornell Graduate Consulting Club, *Senior Associate*, Ithaca, NY

Aug 2022 - Present

- Engaged frequently with the client, a Software as a Service (SaaS) startup company, to translate their business priorities into actionable objectives that align with their long-term strategy and vision, setting them up for sustained success and growth
- Analyzed client's profitability structure using cost-volume-profit (CVP) analysis, identifying areas for improvement and presenting recommendations for different products, resulted in a significant increase in contribution margins by 27%
- Conducted competitive benchmarking, industry best practice, and market research on last mile delivery service platforms, finding the client's niche market and providing valuable insights for their strategic decision making
- Created a compelling visual narrative that effectively communicated the client's financial performance, growth potential, and market positioning to potential investors; built visualizations for a pitch deck that aimed to raise 3 million dollars
- Managed project timelines and deliverables proactively, ensuring the team meets project milestones and deadlines, while maintaining a high level of quality in all deliverables; demonstrated leadership skills by mentoring junior team members, providing guidance on project tasks, and facilitating productive team discussions; fostered a collaborative team environment

Commercial Aircraft Corporation of China, *Data Science Intern*, Shanghai, China

Jun - Aug 2021

- Developed an aircraft maneuver recognition model with 20k+ data points; leveraged experience in data extraction, feature engineering, and machine learning; adopted by test engineers companywide and reduced data processing time from 4 hours to 20 minutes per test; saving the company time and resources while improving overall testing accuracy
- Improved a relational database management system design with 500k+ observations by constructing automated ETL pipeline, resulted in a significant reduction in manual data entry errors; enabled information sharing across echelons within the company and reduced lead time, allowing the company to make more informed business decisions in a timelier manner
- Spearheaded a supply chain optimization project for manufacturing process and material delivery on test airplanes; conducted a thorough evaluation of inventory policies and reduced the risk of stockouts in a cost efficient way; increased fill rate from 61% to 83% while maintaining current level of inventory holding costs, which had a measurable impact on the business
- Assisted in the development of backend software framework of a real-time test monitoring system interacting with electronics equipment; automated electronics testing and reduced human error by improving cross-platform compatibility

Trella Urban Forestry Technology, *Strategy & Operations Intern*, Remote in the U.S.

Jun - Aug 2020

- Analyzed cost landscape for the tree planting education program driven by the company's social impact initiatives; built a scenario-based cost comparison model on launch strategies, leading to an informed decision on the optimal launch platform
- Integrated and standardized current tree species database; designed a user-friendly interface for easy access and input
- Assisted in cross-cultural collaboration effort between the U.S. management and the local team in China

INTERESTS & PROJECTS

- Licensed private pilot by FAA with airplane single engine land rating; 100+ hours of flight time
- Led research project on implementation of EVTOL (electric vertical takeoffs and landings, or air taxis) in NYC; presented feasibility reports after conducting market analysis, predicting user needs, and evaluating investment and risks
- Engaged in the emergency process design and resource allocation of Cayuga Medical Center; implemented triage algorithms for low-acuity and high-acuity patients; reduced patient wait time and improved service quality
- Participated in a natural language processing project; developed a large language model using neural networks and transformers with attention mechanisms under the BERT framework; scored top 5 in Kaggle competition
- Served as a teaching assistant over four semesters; hosted weekly labs and office hours to help students; assisted in creating, testing and grading assignments; facilitated classroom management and maintained a positive learning environment