

# Charles Ancel

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## Education

### Bachelor of Science in Mathematics with Minor in Economics

August 2024

University of Illinois at Urbana-Champaign, Urbana, IL

#### Relevant Coursework:

- **Advanced Mathematical Techniques:** Courses including Intermediate Abstract Algebra, Set Theory and Topology, Differential Equations, and Elementary Real Analysis.
- **Economic Analysis & Decision Making:** Courses including Game Theory and Macroeconomic Policy.
- **Statistical Modeling & Data Interpretation:** Courses including Methods of Applied Statistics.

## Professional Experience

### Photo Studio Assistant

January-August 2021, May-August 2022

FTD, Downers Grove, IL

- Conducted comprehensive color and stem analysis for seasonal assortments using sales data.
- Managed workflow and pricing using advanced Excel functions such as pivot tables, VLOOKUPs, and macros to ensure profitability and efficiency.
- Created detailed reports and dashboards to present key metrics and insights to stakeholders.
- Documented year-over-year stem pricing shifts to calculate best practices for future retail pricing.

### Rose Parade Logistics Coordinator

December 2022, December 2023

- Coordinated floral design logistics for the Rose Parade, ensuring consistency and supporting the creative vision of the design team.
- Acted as primary logistical coordinator below the director, optimizing allocation and management of florals and resources.

## Projects

### Competitive Valorant Match Analysis

2023

- Developed a Python-based tool for scraping competitive Valorant match data, establishing performance baselines and identifying success patterns.
- Employed statistical methods to merge datasets for comprehensive analysis of player and team dynamics.

### College Football Games Statistical Analysis

2022

- Analyzed dataset covering college football games from 2001 to present, focusing on game dynamics and outcomes.
- Utilized statistical techniques to evaluate trends, performances, and the 'excitement index' of games.

## Skills

- **Programming Languages:** Python, R, SQL
- **Data Analysis:** Data cleaning, transformation, and visualization; statistical modeling
- **Tools:** Excel (advanced functions, pivot tables, VLOOKUPs, macros), Git, RStudio
- **Soft Skills:** Critical thinking, problem-solving, collaboration, project management

## Certifications

- Certification in Finite Mathematics

## Professional Development

- Continuous learning through online courses and workshops in data science and machine learning.