

MAXWELL LISS

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SUMMARY

Sophomore at Vanderbilt University majoring in Mathematics and Computer Science. Skilled in developing data-driven tools and models, with experience in actuarial analysis, pricing optimization, and financial markets. Strong interest in quantitative finance, risk management, and predictive modeling.

EDUCATION

Vanderbilt University, Nashville, TN

Bachelor of Science in Mathematics & Computer Science candidate, expected May 2027

GPA: 4.0/4.0 | Dean's List

Relevant Coursework:

Proof Based Multivariable Calculus and Linear Algebra, Introduction to Probability and Mathematical Statistics, Applied Programming and Problem Solving with Python, Programming and Problem Solving, Discrete Structures, Program Design and Data Structures, Principles of Macroeconomics, Principles of Microeconomics

- **Vanderbilt Investment Club**, Analyst | 2024 – Present
- **Vanderbilt Intercollegiate Poker Association**, Member | 2023 – Present
- **Alpha Epsilon Pi**, Social Committee Member | 2024 – Present

Latin School of Chicago, Chicago, IL

College Prep Curriculum with high honors, June 2023

- **Student Investment Fund**, Technology Coordinator | 2020 – 2023
 - Managed portfolio tracking for a \$75,000 student-run endowment fund, improving decision-making, and rebalancing to optimize returns and reduce volatility.
- **Math Team**, Co-Captain | 2020 – 2023
 - Led the team to top finishes in state competitions, including 1st place at ICTM Regional; 2-time AIME qualifier with strong individual placements in ICTM and IML.
- **Math Independent Study & Competitions** | 2020 – 2023
 - Completed an independent study in group theory and abstract algebra, with additional coursework in advanced math (University of Chicago, AOPS, Global Online Academy).

EXPERIENCE

Ryan Specialty, Chicago, IL

Actuarial Intern | Summer 2024 – Present

- Developed an actuarial-based tool that streamlined CAT modeling rate calculations for a nine-figure book of business, enhancing pricing accuracy, granularity, and automating the underwriting process to meet various carrier requirements.
- Created a demo version of the tool to successfully pitch to a new carrier, demonstrating the efficiency and actuarial rigor of the underwriting process.
- Collaborated with underwriters to tier a book of business, recommending technical premiums that effectively reduced historical loss ratios.
- Received a return offer and currently working part-time, focusing on advanced modeling, tiering a new book of business, and analyzing the impact of credit scores across multiple books.
- Provided ongoing support for internal Excel rating tools, identifying and analyzing predictive variables to optimize underwriting and profitability.
- Leveraged Python, R, Cognalysis, Tableau, SQL, and Excel for comprehensive data analysis and tool development.

SKILLS AND INTERESTS

Programming Languages: Python, Java

Data Analysis & Tools: SQL, Cognalysis, Excel, Tableau

Financial & Analytical Skills: Financial Modeling, Actuarial Analysis, Risk Management

Other: Leadership, Mathematics, Poker Strategy