RYAN LEE

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EDUCATION

Cornell University, School of Industrial and Labor Relations **Ithaca, NY**
Bachelor of Science in Industrial and Labor Relations *Expected May 2029*
Intended Minors: Operations Research and Management Science; Economics
Cumulative GPA: 3.91/4.00
Relevant Coursework: Probability & Statistics, Microeconomics, Macroeconomics, Financial Accounting, and Game Theory

FINANCIAL PROJECTS

Equity Market Risk Analysis | Python, pandas, Matplotlib **Oct 2026**
- Analyze S&P 500 returns in Python, calculating rolling volatility and maximum drawdown to examine how market risk changes over time.
- Visualize returns and risk measures in Matplotlib; compare volatility and drawdowns across periods to describe changing market conditions.
- Document data sources, date ranges, return calculations, findings, and limitations in a written summary explaining methods and assumptions.

Treasury Yield Curve and Bond Sensitivity | Excel **Sep 2026**
- Build an Excel dashboard of U.S. Treasury yields to visualize the yield curve and track the spread between 10-year and 2-year yields.
- Model bond prices under ±50 and ±100 basis-point yield changes to compare interest-rate sensitivity across bonds with different maturities.
- Document coupon, maturity, and discount-rate assumptions; compare scenarios and explain the relationship between bond prices and yields.

RESEARCH EXPERIENCE

Cornell University ILR School **Ithaca, NY**
Research Team Co-Lead, Campus Mediation Practicum Study *Dec 2025 - Jul 2026*
- Conducted 17 qualitative interviews on Cornell mediation training to examine students' emotional intelligence, confidence, and experiences.
- Reviewed 18 articles on mediation, empathy, and conflict resolution to refine research questions and interpret findings from student interviews.
- Organized interview findings and research materials; presented the study at the ACR-GNY Conference in 2026 to communicate key findings.

IBM Cybersecurity Research **Yorktown Heights, NY**
Independent Student Researcher *Oct 2022 - Mar 2025*
- Benchmarked CNN, SVM, and RF models using Python on 9,339 malware images across 25 families, achieving 98.59% reported accuracy.
- Evaluated precision, F1 scores, confusion matrices; investigated effects of hyperparameters and model architecture on performance.
- Completed 500+ research hours with 3 IBM Ph.D. mentors; earned 2nd Place at Somers Science Fair and team-project award for research.

PROFESSIONAL EXPERIENCE

Cornell University ILR School **Ithaca, NY**
Peer Mentor *Aug 2026 - Present*
- Mentor 20 ILR students in weekly meetings on note-taking, office hours, club involvement, campus culture, and the transition to Cornell.
- Complete weekly staff training on student concerns and appropriate referrals; help mentees navigate campus support resources and activities.

Trump National Golf Club Westchester **Briarcliff, NY**
Lifeguard *Jun 2026 - Aug 2026*
- Monitored guest safety at 3 club pools with peak pool-area attendance of 70+ patrons; enforced rules and remained alert to safety hazards.
- Maintained daily pool operations through cleaning and chlorine/acid checks; coordinated with staff on facility conditions and safety concerns.
- Communicated with club members and guests, explaining facility rules and responding to questions while maintaining a calm presence.

Office of NYS Assemblyman Matt Slater **Brewster, NY**
Legislative Intern *Oct 2024 - Jan 2025*
- Drafted constituent emails and letters for events, condolences, and community milestones to support communication with district residents.
- Prepared official recognitions and certificates for ceremonies, ribbon cuttings, and events, tailoring personalized language to each occasion.
- Supported office operations through data entry, constituent record-keeping, and file organization; coordinated to keep requests on schedule.

EXTRACURRICULAR ACTIVITIES

Phi Alpha Delta Pre-Law Fraternity **Ithaca, NY**
Member and Staff Writer *Sep 2025 - Present*
- Researched and wrote on securities litigation and markets, including short-seller reports, loss causation, and corrective disclosure doctrine.
- Participate in debate, mock trial, and case-study training to strengthen speaking; engage with alumni and attorneys at panels and events.

SKILLS AND INTERESTS

Skills: Microsoft Excel (certified; VLOOKUP, pivot tables); Python (foundational); machine learning; Mandarin Chinese (fluent speaking)
Independent Study: Options pricing (Black–Scholes), option Greeks (delta, gamma, theta, vega), implied volatility, Brownian motion
Interests: Equity market structure, Judo, Brazilian jiu-jitsu, wrestling, weightlifting, boxing, NFL, UFC, poker, card games, guitar