Lucas Wu

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Education

University of Pennsylvania M&T	Interlake High School	Expected Graduation – June 2025
36 ACT	Computer Science and Finance Dual Degree	**GPA - 4.00/4.00**

Work Experience

Bond Intelligence (2021-2022) | Software Engineer Intern
- Developed live 3D plot.ly webpage **visualizations**, used docker to build functional cloud containers
- Utilized GCS, Google Cloud Run, Google Cloud **SQL** to maintain and migrate databases and sites
- Analyzed and created tearsheets on bond and stock data through the quantstats **python** library
- Constructed python dash-based multi-page dashboards with interactive graph and data functionality

MCJ Capital Partners (2022) | Qualitative Analyst Intern
- Produced **qualitative research reports** on foreign small-cap companies and currency exchanges
- Created JS-based **visualizations** for professional display based on time-series data
- Aided mentor in publishing additional **market research** for outreach and exchange purposes

AppEsteem Corporation – Blur.live (2021) | Data Analysis Intern
- Worked on a model to detect with high accuracy changes made by web developers to bypass adblockers
- Utilized Power BI to process 20 million+ rows of data daily and derive useful conclusions, built visualizations to concisely represent data
- Served over 100,000+ users and provided support to millions of ad blurs per day

School Research Projects

Deriving and Analyzing Markowitz Portfolio Optimizations in Real Markets (2021)
- Derived linear algebraic formulae suitable for computer optimization using standard Markowitz Portfolio Theory for two stocks, extrapolated to larger numbers of securities through statistical methods
- Tested the formulae using real-market data and compared effectiveness to standard weightings

A Comparative Analysis of Hypothesis Testing Paradigms (2021)
- Analyzed similarities in the theory, efficiency, and application of Frequentist and Bayesian testing
- Developed experience researching using mathematical journal articles, textbook resources, and communication with advisors and experts

Clubs

- Wharton Investment and Trading Group Quant Committee	September 2022-Present
- Penn Quant Trading Club Advanced Team	September 2022-Present
- Wharton Undergraduate Finance Club Investment Team	September 2022-Present

Interlake High School **Student Co-President** ▪ Interlake Math Club **President** ▪ Interlake Science Club **President**

Skills

- Advanced college-level knowledge of calculus, physics, chemistry, and computer science
- Extensive Java experience, **Python**, **SQL**, OCaml, **C++**, and JavaScript fluency
- 100+ hours of speaking expertise from school, clubs, and tutoring
- Expertise in **Excel**, Power BI, several Google Cloud services, Docker, and GitHub

Awards and Honors

USNCO High Honors (US Chemistry top 50) ▪ **USAMO** ▪ **USABO** Semifinalist (US Biology top ~130)
BSA **Eagle Scout** ▪ 2021 and 2022 WA State **FTC Robotics Champion** Team, **2022 top 12 Worldwide**
Perfect ACT Score ▪ International Baccalaureate Bilingual Diploma in English and Chinese
2022 InspirASIAN Scholar ▪ 2022 National Merit Finalist ▪ 2022 Elks MVS Semifinalist