Lucas Wu

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Education

Interlake High School '22 | University of Pennsylvania M&T '26   Graduation – June 2026

36 ACT | 1570 SAT   Computer Science and Finance Dual Degree   **HS GPA - 4.00/4.00**

Work Experience

Bond Intelligence (2021-present) | 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-present) | 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

Leadership

- Interlake High School **Associated Student Body Co-President**   June 2021-2022
- Interlake Math Club **President**   June 2021-2022
- Interlake Stocks Club **President**   June 2020-2022

Interlake Science Club **President** ▪ Tyee Science Club **Head Coach** ▪ FTC 18225 **Documentation Lead**

Skills

- Advanced college-level knowledge of calculus, physics, chemistry, and computer science
- Extensive **Java** experience, **Python**, SQL, 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**