

## EDUCATION

## PURDUE UNIVERSITY, US

January 2023 – May 2025

Bachelor of Science in Mathematics with a concentration in Business

Minor: Economics, Computer Science and Statistics

- CGPA: 3.5/4.0

## TAYLOR'S UNIVERSITY, MYS

January 2021 – December 2022

Bachelor of Science in Mathematics

- Recipient of Summa Cum Laude Award and Dean's List Academic Achievement Award for 4 semesters
- CGPA: 3.96/4.0

## PROFESSIONAL EXPERIENCE

## Satellite Maneuver Software Developer, Viasat

August 2024 - Present

- Developing a satellite maneuvering tool to predict and prevent potential collisions in low-Earth orbit (LEO), ensuring sustainable satellite operations.
- Utilizing APIs from Space-Track, Celestrak, and other sources to merge and visualize space sustainability data, aiding in tracking satellite objects and mitigating collision risks.

## Purdue Research Assistant

May 2023 – Present

*Project: Notions of Positivity and Complexity in Quantum Information Theory*

- Explored linear transformations between matrix algebras that preserve positivity, analysing their complexity for solving computationally difficult problems.
- Utilized AI and machine learning to develop efficient computational methods in quantum information theory, linear algebra, and computational complexity, demonstrating strong analytical skills.

## Purdue Student Athlete Academic Mentor

May 2023 – Present

- Coached student athletes in improving academic skills through personalized coaching in note-taking, reviewing, studying, and writing.
- Mentored over 40 student-athletes, helping improve their average grades by 60% through personalized study strategies and fostering effective academic habits.

## Data Analytics Extern, Mobalytics

August 2024 – September 2024

- Analyzed gameplay data to recommend improvements for hero optimization, resource management, and combat efficiency, enhancing both casual and competitive gameplay experiences.
- Developed and presented predictive performance analytics tools, helping players optimize hero selection and combat strategies in real-time.

## Data Science Researcher, Caterpillar Inc.

August 2023 – April 2024

- Built a patented application to direct operators and fleet managers with geolocation push notifications for battery charging state, nearest available charging locations, routes, C-rate options, estimated charge time, and total cost, restructuring operational efficiency.

## Finance Intern, Zebra Technologies, Malaysia

May 2022 – August 2022

- Conducted financial analysis using DCF and LBO models, contributing insights that facilitated the funnelling and recording of prospective investment opportunities.
- Devised a performance dashboard for the Asia Pacific region, which streamlined reporting processes and provided real-time insights, reducing reporting time by 25%.

## Founder &amp; CFO, Lucid Face Mask NPO

May 2021 – December 2021

- Started and managed a non-profit business selling face masks and accessories during the COVID-19 pandemic.
- Led the financial and marketing strategies, implemented cost-reduction strategies and optimized pricing, leading to a 70% sales increase and enhanced financial sustainability.

## LEADERSHIP AND ACTIVITIES

## Associate Analyst of Purdue Investment and Trading

January 2023 - Present

- Conducted extensive research on various companies, analyzing their stocks and shares to identify potential investment opportunities.
- Presented findings to clients through persuasive pitches and developed detailed reports using CFA standards.

## Secretary of Taylor's University Sports Club Athenian

January 2022 – December 2022

- Co-founded a sports club dedicated to promoting physical fitness and athletic activities among Taylor's University students.
- Managed and hosted a variety of games, sports, and events, providing students with opportunities to engage in healthy competition and teamwork, increasing club membership by 80%.

## AWARDS

## Jandos Scholarship, Women In Science Program (WISP), Purdue University

April 2024

- Awarded for commitment to diversity and active participation in educational cohort activities within the College of Science.

## Creative Thinker of the Year Award by Bayer

December 2023

- Received award for top business pitch proposing an innovative, green prototype design concept to assist U.S. farmers.

## Economic Scholars Award by Purdue University Research Center in Economics (PURCE)

August 2023

- A scholarship and independent study program for undergraduate students demonstrating excellence in economics.

## Winner of American Statistical Association[ASA] DataFest

March 2023

- Awarded 'Best Business Application' in DataFest 2023, a data science competition where participants analyzed pro bono cases to provide actionable insights organized by American Statistical Association(ASA).

## TECHNICAL SKILLS

Java | C | C++ | Python | HTML | XML | Tableau | Jupyter | MS Office | SQL | MATLAB | Figma | Financial Modelling | Valuation Analysis