Chris Zhengyu Liu

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SUMMARY

A solution-driven first-year student at the Georgia Institute of Technology's H. Milton Stewart School of Industrial and Systems Engineering. Skilled in large-scale multi-modal data gathering, processing, and analysis. Is eager to learn from new experiences and hands-on applications of classroom topics.

EDUCATION

Georgia Institute of Technology   **May 2025–Present**
Atlanta, GA
- Bachelor of Science in Industrial and Systems Engineering
- GPA: 4.0 (Dual Enrollment)
- Coursework Completed: Linear Algebra, Multivariable Calculus, Introduction to Computing, Applied Combinatorics, Differential Equations
- Selected Coursework In Progress: Probability with Applications, Data Input & Manipulation, Introduction to Object-Oriented Programming

Gwinnett School of Mathematics, Science, and Technology   **August 2021–May 2025**
Lawrenceville, GA
- High School Diploma, with Honors
- GPA: 4.333
- Activities: Polaris Peer Mentor, NHS Tutor, MAT Tutor, UNICEF Club Vice President

EXPERIENCE

Scheller College of Business   *Research Assistant*   **June 2024–May 2025**
- Worked under Dr. Tracey A. Swartz to design and create a software suite consisting of 11 major scripts and additional helper scripts using Python and Linux bash to collect, clean, process, and visualize 10+ gigabytes of raw data according to research needs.
- Programmatically creating Excel files with Python, large-scale complex text extraction using RegEx, and web scraping using requests, Selenium, and APIs.
- Assisted in data analysis by implementing various textual-to-numerical data transformation techniques, such as dictionary analysis, bag-of-words analysis, and term frequency-inverse document frequency calculations. Dynamically generated Excel sheets of data with 10000+ rows of entries.
- Guided a team of two Junior research assistants on foundational tasks to supplement the research project.

Prime Academy   *Tutor & Accountant*   **July 2023–Present**
- Co-founded an online tutoring business with 20+ instructional hours per week.
- Created diagnostic exams for math students with hundreds of key concepts and topics ranging from Kindergarten to late high school level calculus, to identify deficiencies in foundational topics that prevent intuitive understanding of high-level mathematical concepts.
- Created a system of reporting student performance using diagnostic exam data. A Google Sheet linked with a Google Form was used to calculate student performance in various areas of math dynamically.
- Written summaries and visual pie charts were included in the report to parents.

SELECTED AWARDS & HONORS
- Georgia Governor's Honors Program in Mathematics, German, and Social Studies Nominee
- AP Scholar with Distinction
- 3rd Place in HackGwinnett 2025 Hackathon (camera-based depth perception model to provide audio cues for the visually impaired)
- Publications in the 2025 Winter edition of *American High School Poets* - Topical Winner
- Publications in the 2025 Spring edition of *Poetry Lab Shanghai*

SKILLS
- Python (numpy, pandas, matplotlib, openpyxl, etc.)
- Data extraction, cleaning, and analysis
- Mathematical Modeling
- Object-Oriented Programming
- Data formats (JSON, XML, PDF, TXT) conversion and processing
- Linux commands & shell scripting