Ethan Yoon

(773)-551-3189 | emy1@uchicago.edu | https://etyoon.github.io/ethanyoon/ | 5623 S Dorchester Ave. Chicago, IL 60637

EDUCATION

The University of Chicago, Chicago, IL
Bachelor of Science in Computer Science and Bachelor of Arts in Public Policy, expected June 2025
Cumulative GPA: 3.65
Activities: Environmental Research Group, UChicago Impact Investing Group, TechTeam

EXPERIENCE

PULSE-A, Chicago, IL, Jan. 2024 – Present
System Integration
- Ensuring avionics subsystems for the PULSE-A satellite meets NASA's standards for vibration, venting, and temperature control systems in preparation for launch.
- Preparing software testing protocols in order to ensures seamless communication between sensors, optical payload and ground station.

Anti-Trafficking Intelligence Initiative, Chicago, IL, Jan. 2024 – Present
Team Member
- Utilizing Beautiful Soup to scrape dark and clear websites for phone numbers, emails, usernames, and business data points to help financial institutions link suspicious activity alerts to human trafficking and related activities.
- Creating SQL data pipelines to add additional websites for scrapping as well as OSINT information to be used in keyword cloud and other analytics between parsed data to find matches and hotspots.

Calvert Impact Capital, Bethesda, MD, Jun. 2023 – Aug. 2023
Impact and Risk Intern
- Developed interactive dashboards and visualizations using Calvert Impact's business intelligence tool to effectively track and analyze data for the core Community Investment Note® portfolio and new product portfolios.
- Took ownership of data management tasks by accurately entering, maintaining, and organizing data within Calvert Impact's impact database, ensuring data integrity, accessibility and updates to financial and ESG models.

The University of Chicago Environmental Research Group (ERG), Chicago, Illinois, Oct. 2020 – June 2021
Data Analyst
- Analyzed Chicago Transit Authority data of thousands of riders from March 2020 to December 2020 in order to determine how air-quality changed as a result of lower ridership.
- Utilized Python's seaborn and matplotlib libraries in order to create a heatmap of ridership across all CTA as well as analyze trends in air-quality data published in an independent journal.

PROJECTS

Cornucopia, Oct. 2023 – Present
- Using Node.js, React, and MongoDB to create a full-stack web app that stores items in one's fridge and recommends recipes based on user preferences and availability of ingredients.

Spotify Recommendation, May 2023
- Used Python's Keras and SciPy packages to analyze a catalog of 232,726 songs and categorize them into genres based on key, bpm, and other metrics culminating in a report detailing the accuracy of the classifier.

Checkers, Feb. 2023
- Used Python to design and implement a checkers game with player vs player and player vs computer settings with both random and intelligent play capabilities.

F1 Trends, Jul. 2022
- Used Python and BeautifulSoup4 package to scrape historical F1 constructor points data and plot them again google trends data of livery sponsors to decern how much exposure sponsors receive based on team performance.

SKILLS

Skills: Python, C, Java, JavaScript, SQL, Power BI, Node, React, Django