

# Ethan Yoon

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<https://etyoon.github.io/ethanyoon/>

## EDUCATION

**The University of Chicago**, Chicago, IL

Jun. 2025

*Bachelor of Science in Computer Science and Bachelor of Arts in Public Policy*

Cumulative GPA: 3.6

**Activities:** Environmental Research Group, UChicago Impact Investing Group, TechTeam

**Relevant Courses:** *Computer Science with Applications I & II, Systems Programming I & II, Introduction to Machine Learning: Concepts and Applications, Statistical Models and Methods, Theory of Algorithms, Introduction to Database Systems, Engineering for Ethics, Privacy, and Fairness in Computer Systems*

## EXPERIENCE

**iManage**, Chicago, IL

Jun. 2024 – Sep. 2024

*Software Engineer Intern*

- Utilized Python and the Slack Bolt API to create an internal tooling Slack application that interacts with iManage testing suite that determine the operability of a client's endpoint so non-technical staff can modify these protocols in a no-code environment.
- Created input blocks to parse user parameters and activate listeners that send byte representations of commands to respective virtual machines running Docker containers over multithreaded socket connections or independently modify MySQL databases containing client information.
- Regularly participated in sprint planning meetings and lead tech demos within an Agile development environment to resolve key design decisions, user requirements, and acceptance criteria.

**Anti-Trafficking Intelligence Initiative**, Chicago, IL,

Jan. 2024 – Jun 2024

*Database Engineer*

- Utilized BeautifulSoup 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.
- Created 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.

**UChicago Environmental Research Group (ERG)**, Chicago, Illinois

Oct. 2020 – Jun. 2021

*Data Analyst*

- Analyzed Chicago Transit Authority data of ~12,000 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

**Music Generator** | TensorFlow, Pretty MIDI

May 2024 – Jun. 2024

- Trained a custom neural network on 1,034 MIDI files of UK and US popular folk songs in order to generate a novel song from the training data

**Cornucopia** | Node.js, React, MongoDB, Mistral

Oct. 2023 – Jun. 2024

- Created a full-stack web app that allows users to store ingredients and expiration dates of items in their fridge. Utilized Mistral Large language model for unit conversion of recipes

## SKILLS AND CERTIFICATIONS

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

