Ethan Yoon

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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

- Utilized Python and the Slack Bolt API to create a full-stack slack application to display and modify iManage testing protocols across 3 core products and 6 core services
- Deployed docker containers that communicated information across 3rd party endpoints, internal databases, and Azure Cloud Services over socket connections
- Contributed to sprint planning meetings while working within an Agile development environment

Anti-Trafficking Intelligence Initiative,Chicago, IL, Jan. 2024 – Jun 2024

Database Engineer

- Utilized 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.
- 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, Minstral 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

Spotify Recommendation | Python, Keras, SciPy May 2023

- Analyzed 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.

SKILLS AND CERTIFICATIONS

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