

Noah Tan

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EDUCATION

The University of Chicago

Chicago, IL

Bachelor of Arts in Economics and Computer Science

Expected, December 2025

- **Relevant coursework:** Information and Financial Markets, Real Analysis, Mathematical Probability, Economic Policy Analysis, Industrial Organization, Complexity Theory, Theory of Algorithms, Machine Learning, Econometrics, Data Visualization, Computer Architecture, Discrete Math, Intermediate Micro and Macroeconomics, Abstract Linear Algebra, Statistics, Data Structures and Algorithms

EXPERIENCE

3DL (Threedle) - University of Chicago

Chicago, IL

Undergraduate Research Assistant

June 2024 – Present

- Trained neural networks with PyTorch on signed distance functions to improve Bezier curve initialization
- Visualized 3D meshes with differentiable rendering through NVDiffrast, Kaolin, and CLIPasso
- Improved neural network model performance with hyperparameter tuning

MAPSCorps

Chicago, IL

Data Analyst Instructor

June 2023 – August 2023

- Mentored a group of 23 high school students to design, collect data, and present a mapping research project
- Created a research poster and an ArcGIS StoryMap to present to Chicago city officials at a research symposium
- Presented weekly dashboards & data visualizations for administrative support and progress reports

CharacTour

Chicago, IL

AI Intern

June 2023 – August 2023

- Trained natural language processing models to predict which personalities connect with entertainment content
- Improved recommendation engine with cosine similarity, k-means clustering, and machine learning
- Used Python and proprietary data from 8.5 million registered users to develop data visualizations

SKILLS

Proficient Languages: Python, C/C++, JavaScript, Java, R, MATLAB, SQL, HTML, CSS, MS Office

Competition Math Scores: AIME: 8, AMC 10: 136.5, AMC 12: 114.0

PROJECTS

Shell

- Implemented a **Unix** shell and command line in C
- Used **fork/exec** to manage multiple processes
- Used **File I/O** to add piping/redirection

Interactive Election Map

- Used **JavaScript**, **HTML**, and **CSS** to develop an interactive data visualization of US election data since 1972
- Created a **Python** script to scrape 40 years of election data and format it into a **CSV** file
- Visualized election data with **D3.js** and implemented interactive tooltips

LEADERSHIP & ACTIVITIES

The University of Chicago Gymnastics Club

Chicago, IL

Vice President

September 2022 – Present

University Ballet of Chicago

Chicago, IL

Cast Member

August 2023 – Present