ANDREW HAH

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EDUCATION

The University of Chicago   **Expected 2026**
- *Bachelor of Arts in Mathematics, Computer Science*
- Relevant Coursework: Systems Programming, Object-Oriented Programming, Statistics and Regression Models, Intro to Data Science, Web Design and Computer Principles

Kent School   **2022**
- *High School Diploma*
- GPA: 6.07/6.00, *Cum Laude*

WORK EXPERIENCE / PROJECTS

Satellite Imagery to Predict House Prices – Project   **Project Link**
- Procured houses dataset through web-scraping of online real estate marketplace Zillow; data cleaning included discarding missing data points and managing outliers, resulting in a refined and reliable dataset of 7k+ houses.
- Engineered a combined, hybrid neural network, model integrating both tabular data and image data, leveraging the powerful feature extraction capabilities of a pre-trained Inception model for more nuanced insights.
- Fine-tuned model parameters and architecture, employing dropout for regularization and Adam optimizer for effective loss minimization.
- Tech Stack: Python, PyTorch, Sckit-learn, Pandas, Numpy, Matplotlib, Google Maps API

Oedo Group | *Data Science Intern*   **Jun 2023 - Aug 2023**
- Conducted research to identify inefficiencies in a transportation system for tourists; gathered and analyzed travel data including boat timings, passenger volume, and seasonality to identify patterns affecting wait times.
- Designed and helped implement a random forest model tailored to minimize wait times; collaborated closely with software engineers and operations teams to ensure the viability of the model.

Cornell University | *Researcher*   **Jul 2022 - Mar 2023**
- Research conducted under Professor Parfait Eloundou-Enyegue, professor at Cornell University.
- Conducted a comprehensive examination of the factors contributing to declining mental health among college students in the U.S. utilizing ordinary least squares regression models and statistical analysis.
- Discovered new quantitative evidence for the non-linear relationship between time spent studying and depression, and the interaction effect of students' years in school over the relationship between gender and depression level.
- Authored 25-page research paper which was accepted to and presented at the 2023 Sociology of Education Open Session hosted by the American Sociological Association (ASA).

LEADERSHIP ACTIVITIES

Math/Science Tutoring President, Kent School [10-12th Grade]   **Sep 2020 - Jun 2022**
- Selected by math and science faculty; appointed as president in 2021 by previous captains and faculty advisors.
- Provided weekly training and orientation to new tutors in addition to leading regular planning sessions for events.
- Worked to provide individualized assistance to 60+ students in math and science coursework throughout the school year.

TECHNICAL SKILLS

Programming Languages: Python, Java, Javascript, HTML, CSS, SQL
Frameworks & Libraries: Pytorch, React, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn