GRACE WANG

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EDUCATION

THE UNIVERSITY OF CHICAGO   Chicago, IL
Bachelor of Science in Computer Science, Bachelor of Arts in Statistics   Expected June 2024
Cumulative GPA: 3.63/4.00
Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Computer Architecture, Introduction to Computer Systems, Mathematics for Machine Learning

TECHNICAL SKILLS

Languages: Proficient in Python, C; Familiar with Java, JavaScript, HTML/CSS
Tools: Linux CLI, Git

TECHNICAL EXPERIENCE / PROJECTS

Chicago Human+AI Lab, University of Chicago   Chicago, IL
Research Assistant   August 2022 – Present
- Collected a dataset of 238 State of the Union addresses and 62 presidential inaugural addresses by implementing a web scraper using **Python, Requests,** and **BeautifulSoup**
- Preprocess and tokenize over 300 **JSON** files using **spaCy**'s sentencizer pipeline component
- Analyze the dataset across 46 presidencies using natural language processing tools such as **VADER** and **RoBERTa**

Data Science Institute Summer Lab, University of Chicago   Chicago, IL
Research Assistant   June 2022 – September 2022
- Collected a dataset of content moderation policies across 46 different internet platforms by implementing a web scraper using **Python, BeautifulSoup**, and **Selenium**
- Performed qualitative analysis of content moderation policies which resulted in a research poster and 5 minute video presentation at the Summer Lab's research symposium

Modern Microprocessor Simulator   September 2021 – December 2021
- Programmed a simulation of a microprocessor in **C** based on the ARM instruction set, enabling the microprocessor to decode and process 30 types of ARM instructions for a computer architecture course
- Implemented pipelining and branch prediction features which boosted instruction throughput by a factor of at least 5

Tweak My Title, MLH Snakes and Hackers Hackathon   January 2021 – February 2021
- Built a fantasy name/title synonym generator over the course of 48 hours in **HTML, CSS**, and **JavaScript**
- Used Merriam-Webster's **API** to fetch synonyms for user-inputted words which were then randomly selected for display

High School Involvement Program, Northrop Grumman   Salt Lake City, UT
Engineering Intern   August 2018 – June 2020
- Assembled robots using LEGO components and programmed them in **Java** to complete navigational and combative tasks such as sensing boundaries, carrying and transporting objects, and battling other robots
- Engineered and presented a face recognition lock box using a **Python** library, electromagnetic lock, and raspberry pi

LEADERSHIP/ACTIVITIES

C-Thru.ai   Chicago, I
Web Designer   March 2022 – Present
- Designed the pilot website presented to startup investors and linked to by 2 UChicago Polsky Center pages, receiving 210 unique visits within 30 days
- Lead the design and construction of the marketing website using **Figma** and **Webflow**